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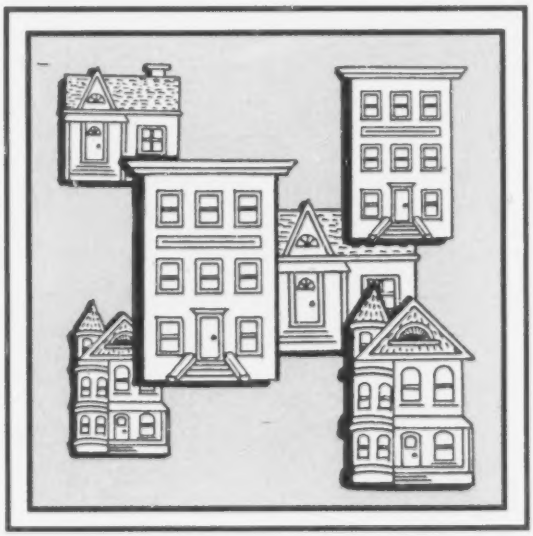
VIRGINIA
STATISTICAL SERIES

Housing Units Authorized in Virginia's Counties & Cities



Annual, 1989

Michael A. Spar

UNIVERSITY OF VIRGINIA

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CENTER FOR PUBLIC SERVICE
UNIVERSITY OF VIRGINIA

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Contents

FOREWORD v

SUMMARY vii

ANALYSIS 1
- Introduction 1
- Residential Trends 1
- Geographic Differentials 3
- Nonresidential Trends 7

ABOUT THE TABLES 10

TABLES
- Table 1. Aggregate Value of Residential Construction, Virginia: 1980–1989 11
- Table 2. Aggregate Value of Nonresidential Construction, Virginia: 1980–1989 11
- Table 3. Residential Building Permits Issued in Virginia Localities, 1989 12
- Table 4. Nonresidential Building Permits Issued in Virginia Localities, 1989 20
- Table 5. Residential Building Permits Issued in Virginia Localities, 1980–1989 28
- Table 6. Nonesidential Building Permits Issued in Virginia Localities, 1980–1989 32
- Table 7. Annual Change in the Number of Residential Building Permits Issued in Virginia Localities, 1980–1989 36
- Table 8. Annual Change in the Number of Nonresidential Building Permits Issued in Virginia Localities, 1980–1989 40

FIGURES
- Figure 1. Number of Residential Permits Issued, Virginia: 1980–1989 2
- Figure 2. Total Value of Building Permits, Virginia: 1980–1989 2
- Figure 3. Number of Residential Permits Issued, U.S. and Virginia: 1970–1989 3
- Figure 4. Number of Residential Permits Issued in Virginia and U.S. Mortgage Interest Rates: 1970–1988 3
- Figure 5. U.S. Residential Permits and Manufacturer's Shipments of Gas and Electric Ranges: 1970–1987 4
- Figure 6. Total Residential Permits Issued, 1989 5
- Figure 7. Change in Residential Permits Issued, by Planning District, 1988–1989 6
- Figure 8. Number of Nonresidential Permits Issued, by Type, Virginia: 1980–1989 9
- Figure 9. Total Value of Nonresidential Permits Issued, by Type, Virginia: 1980–1989 .. 9

APPENDICES
- Appendix A. Nonresidential Buildings Tabular Categories 45
- Appendix B. Virginia Planning Districts 46
- Appendix C. Virginia Metropolitan Statistical Areas 47

Foreword

The Center for Public Service is pleased to present the latest report in our series, *Housing Units Authorized in Virginia's Counties and Cities.*

Produced by the Center's demographic section, this series began in 1970 as an annual report. In 1976 the series was made quarterly; in 1989 it returned to an annual publication schedule. Monthly and quarterly information is, however, available on the Center's Electronic Bulletin Board. In addition to data for counties and independent cities, *Housing Units Authorized* gives totals for each of the state's twenty-two planning districts and eight metropolitan statistical areas.

The Center wishes to thank the following individuals for their assistance in collecting the permit data presented in this report: Glen Skinner, LENOWISCO Planning District Commission; Larry Carr, Cumberland Plateau Planning District Commission; Sally Morgan and Lisa Roberts, Mount Rogers Planning District Commission; Todd A. Steiss, New River Valley Planning District Commission; Deborah Sturm, Fifth Planning District Commission; William Vaughn, Central Shenandoah Planning District Commission; Lisa Phillips, Rappahannock–Rapidan Planning District Commission; Charles G. DeHart, Thomas Jefferson Planning District Commission; Harry S. Thompson, Central Virginia Planning District Commission; Robert Dowd, West Piedmont Planning District Commission; Gail Moody, Southside Planning District Commission; Melody Foster, Piedmont Planning District Commission; Joyce B. Finnegan, Northern Neck Planning District Commission; Alfredo Frauenfelder, Middle Peninsula Planning District Commission; Joseph J. Vinsh, Jr., Crater Planning District Commission; Debra M. Darr, Southeastern Virginia Planning District Commission; Paul F. Berge, Accomack-Northampton Planning District Commission; C. Earl Hillard, Page County Building Official; Neville H. Derflinger, Jr., Warren County Building Official; and William H. Pennell, Code Enforcement, City of Alexandria.

The author wishes to gratefully acknowledge the assistance of other staff members at the Center for Public Service, in particular, Barry A. Jackson, for graphic design and layouts; Jayne Finkelstein, for the report's new cover; and Julia H. Martin, who for many years served as this report's co-author.

We hope readers will find this report to be a useful source of information on building activity in the state, and we will be pleased to answer questions about the data.

Carl W. Stenberg, Director
Center for Public Service
University of Virginia

Charlottesville
September 1990

Virginia's construction industry performed at below-average rates during 1989, bringing to an end the six-year housing boom that began in 1983. In 1989 Virginia localities issued 10 percent fewer permits than the 1983–88 boom average. Permits for single family units were about 13 percent below the boom average.

Summary

RESIDENTIAL CONSTRUCTION

The value of all residential unit permits issued, $3.9 billion, was slightly below the 1988 record of $4 billion, and is thus the second highest total in the last fifteen years. This combination of a sharp drop in the number of permits issued with a much smaller decline in their value means that per unit housing costs increased sharply during 1989. Per unit costs were up 13 percent for all unit types, and 12 percent for single family units. New construction cost increases were nearly three times greater than the overall inflation rate for 1989.

Residential construction was concentrated in five of the state's twenty-two planning districts and three of its eight Metropolitan Statistical Areas. Among planning districts, Northern Virginia, Richmond Regional, Southeastern Virginia, RADCO, and Peninsula accounted for nearly 70 percent of the state total. Among Metropolitan Statistical Areas, the Virginia portion of Washington, D.C., Norfolk-Virginia Beach-Portsmouth, and Richmond-Petersburg accounted for nearly two-thirds of the state total.

Fifteen localities issued over 1,000 residential building permits during the year, led by Fairfax County with 7,904. Chesterfield County, Virginia Beach City, Prince William County, Arlington County, Henrico County, Chesapeake City, and Alexandria City each issued over 2,000 permits. Only four localities issued over 1,000 permits for residential units in multi-unit structures. These were Fairfax County, Arlington County, Alexandria City, and Norfolk City.

NONRESIDENTIAL CONSTRUCTION

Nonresidential construction also showed a sharp downturn during 1989. The total number of nonresidential permits issued was off nearly 13 percent from the 1988 total. A better indicator of nonresidential construction activity, however, is the value of permits issued. The total value of all 1989 permits was down 28 percent from 1988 after adjusting for inflation.

Four categories of building types accounted for the majority of all nonresidential construction. Permits issued for office, banks, and professional buildings had an aggregate value of $708 million; permits for stores and mercantile buildings were worth about $539 million; industrial buildings were worth $201 million; and permits issued for church, hospital, and school buildings were valued at nearly $129 million.

The geographic concentration of nonresidential construction was even more pronounced than for residential construction. Three planning districts, Northern Virginia, Richmond Regional, and Southeastern Virginia, accounted for two-thirds of the total state value of all nonresidential construction. Fairfax County led the state in the construction of new office, bank, and professional buildings, issuing permits valued at $309 million. In the category of new stores and mercantile buildings, Alexandria City led the state with permits valued at $109 million. In the category of new industrial buildings, Newport News City led the state, issuing permits valued at $23 million.

Among non-commercial structures such as churches, hospitals, and school buildings, Fairfax County led the state, issuing permits valued at $29 million. Lynchburg City led the state in amusement and recreational buildings, issuing permits valued at nearly $8 million. In the category of parking garages, only Fairfax and Arlington counties issued permits valued at over $5 million. Both Surry County and Hopewell City issued over $5 million in permits for public works and utility buildings.

Analysis

INTRODUCTION

Data on building permits issued during 1989 strongly suggest that the housing industry is heading toward a recession.

As the eighties drew to a close it appeared that Virginia's longest post-WWII housing boom was running out of steam. The decade began on an inauspicious note as inflation forced mortgage interest rates to previously undreamed-of levels. Mortgage rates peaked at around 17 percent in 1981, but moderated to around 13 percent by 1983. In that year the state entered a prolonged housing expansion, fueled by the continued decline in the cost of borrowing money and increasing demand from baby-boomers intent on purchasing their first home. Almost certainly 1989 marks the end of the boom. Data on building permits issued during 1989 strongly suggest that the housing industry is heading toward a recession.

This finding is reinforced by preliminary data for the first half of 1990. These data suggest that the housing industry is in recession, since total permits issued are down a fifth compared to the first half of 1989. Further, many economists expect the Middle East crisis and resulting increases in oil prices to soon increase mortgage interest rates. If interest rates do increase, it will effectively put an end to any possibility of a second half rally in 1990.

This report uses the number and value of building permits issued by each locality to measure building activity. Permits, however, do not provide a perfect measure of performance. First, a permit represents only the intent to construct a unit on the part of the builder. In a few cases the unit is never built; perhaps the builder has gone bankrupt before finishing construction, or the home buyer has cancelled the purchase agreement. Second, these data exclude information on mobile homes. Mobile home data are unreliable because many Virginia localities fail to distinguish between new mobile homes and mobile homes that are relocating within the locality. Finally, cost data reported here represent a builder-supplied estimate, which normally excludes land acquisition costs and profit margin. Building contractors also tend to underestimate costs (i.e., materials and labor). A Census Bureau study found that underestimation runs from about 17.5 percent for single units, to about 30 percent for two- to four-unit structures, to more than 50 percent for structures containing five or more units.

RESIDENTIAL TRENDS

During 1989 Virginia localities issued nearly 57,000 residential building permits. This is about 9,500 fewer permits than were issued during 1988, a decline of 14 percent. During the 1983–88 housing boom an average of 63,400 permits were issued each year. Construction activity in 1989 is thus about 10 percent below the boom average (see **Figure 1**).

The total value of residential permits issued during the year was $3.9 billion in current dollars, or $3.3 billion in constant 1982 dollars (i.e., dollars adjusted for inflation. See **Table 1** and **Figure 2**). This is a decline of 3 percent from the 1988 total, as measured in current dollars, but a 6 percent decline as measured in constant dollars. Because the number of permits issued fell more sharply than their total value, the cost of an average unit rose about $8,000 to $69,000, an increase of 13 percent. This is a significant rise in the cost of housing, especially when compared to the overall inflation rate for 1989, 4.8 percent.

Traditionally, residential building permits are divided into single family units and various classes of multi-family units, such as duplexes, triplexes, and small and large apartment complexes. At any given time, and for any particular locality, the number of single family permits issued usually

Construction activity in 1989 is about 10 percent below the 1983–88 boom average.

The total value of residential permits issued in 1989 is 6 percent less than in 1988.

Figure 1.
Number of Residential Permits Issued, Virginia: 1980–1989

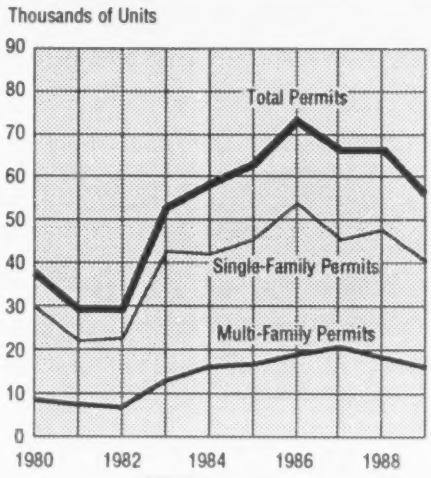
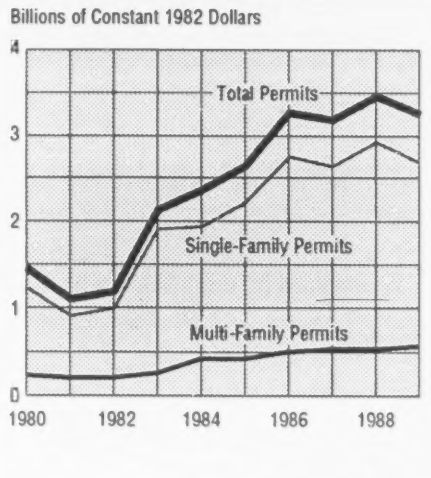


Figure 2.
Total Value of Building Permits Issued, Virginia: 1980–1989



comprises a majority of all residential construction activity. In 1989 the number of single family permits issued made up over 70 percent of the total number of permits. The 40,608 single family unit permits issued in 1989, however, represent a decline of nearly 16 percent from the 48,000 permits issued the year before. Furthermore, the 1989 level of single family permit activity is nearly 13 percent below the 1983–88 average of 46,500 single family permits per year.

The total value of single family permits issued during the year was $3.2 billion in current dollars and $2.7 billion in constant dollars. These totals represent declines of 5.5 and 8.5 percent, respectively, from the corresponding 1988 totals (see Figure 2). The large percentage decline in the number of single family permits issued, combined with the less severe drop in their total value, resulted in a sharp cost increase. The cost of an average single family unit increased 12 percent in 1989, to $79,700 per unit.

Permits issued for multi-family units also declined in 1989, for the second year in a row. Multi-family construction peaked in 1987 when permits for 20,500 units were issued. In 1988 construction fell to 18,400 units, and in 1989 declined again, to 16,300 units. These are two successive declines of around 11 percent.

Although the number of multi-family units has declined, their total value has increased. Permits issued in 1989 were valued at $687 million, compared to $618 million in 1988, an 11 percent increase. Measured in constant dollars, the 1989 increase was somewhat less, 7.5 percent, but still substantial. These trends in number of permits issued and their value have resulted in substantial increases in the cost of an average multi-family unit. An average multi-family unit in 1989 was valued at $42 thousand, compared to $34 thousand in 1988, an increase of 27 percent.

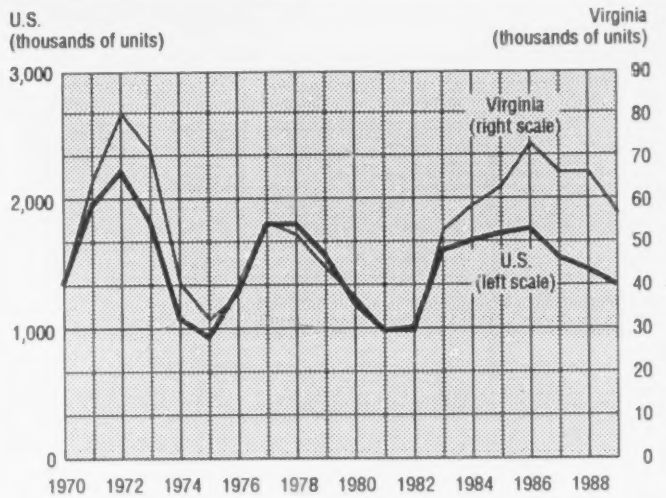
Virginia's housing industry suffered a larger decline in 1989 than did the nation's. Nationally, total residential permits issued declined 9 percent, from 1,456,000 units in 1988 to 1,338,000 in 1989 (see **Figure 3**). Single family unit and multi-family unit permits also declined for the U.S. Single family units declined from 994,000 to 932,000, a loss of 6 percent. Multi-family permits declined from 462,000 to 406,000, a loss of 12 percent. Virginia's losses in 1989, compared to the nation, were about 60 percent greater for total units (i.e., 14 percent versus 9 percent), about 150 percent greater for single family units (16 percent versus 6 percent), but about the same for multi-family units.

Despite these differences, a comparison of Virginia and U.S. permit activity discloses that their long-term trends are basically similar. Figure 3 shows annual permit activity for the United States (measured on the left vertical axis) and Virginia (measured on the right vertical axis). Figure 3 makes clear the high degree of correspondence between housing activity in the state and the nation.

One reason why building trends are so similar in Virginia and the U.S. is because the housing industry throughout the country is so closely tied to the availability and cost of money. Simply stated, when mortgage interest rates increase, building activity declines, and vice-versa. **Figure 4** shows the relationship between building activity in Virginia, as measured by the total number of permits issued, and national interest rates. The left vertical axis shows state permits, while the right vertical axis shows mortgage interest rates. Figure 4 shows that prior to 1977 residential construction reacted strongly to even minor fluctuations in interest rates, but since 1977 the response to rate changes has been more nearly proportional.

If recent national and statewide building trends continue they will soon produce a spill-over effect. Production of consumer durables—items such as refrigerators, stoves, and clothes' washers and dryers—is closely tied to the housing industry. **Figure 5** shows the nearly perfect relationship between residential construction activity and manufacturers' shipments of gas and electric ranges. Shipments of clothes washers and dryers and refrigerators show a similar close association. Any significant decline in home building will result in reduced production of these durable goods. Reduced production will, in turn, impact on the producers of the raw materials and components used to manufacture them. This is one way in which a slow-down in one sector of the economy generates a slow-down in other parts of the economy.

Figure 3.
Number of Residential Permits Issued, U.S. and Virginia: 1970–1989



Construction activity reflects swings in the cost of money. Virginia's housing industry, however, suffered a larger decline in 1989 than did the nation's.

GEOGRAPHIC DIFFERENTIALS

Fifteen localities issued one thousand or more residential permits during 1989. These localities are all located within Virginia's Golden Cres ent and include some of the state's largest and fastest growing places. Fairfax County issued the greatest number—7,904. Following Fairfax were Chesterfield County (3,362), Virginia Beach City (2,937), Prince William County (2,886), Arlington County (2,506), Henrico County (2,324), Chesapeake City (2,108), Alexandria City (2,013), Spotsylvania County (1,742), Stafford County (1,684), Loudoun County (1,442), Norfolk City (1,223), Albemarle County (1,203), Newport News City (1,130), and Hampton City (1,012). Combined, these fifteen localities issued 35,476 permits, about 62 percent of the state total. **Figure 6** contains additional information on the distribution of building permits for individual localities.

Figure 4.
Number of Residential Permits Issued in Virginia and U.S. Mortgage Interest Rates: 1970–1988

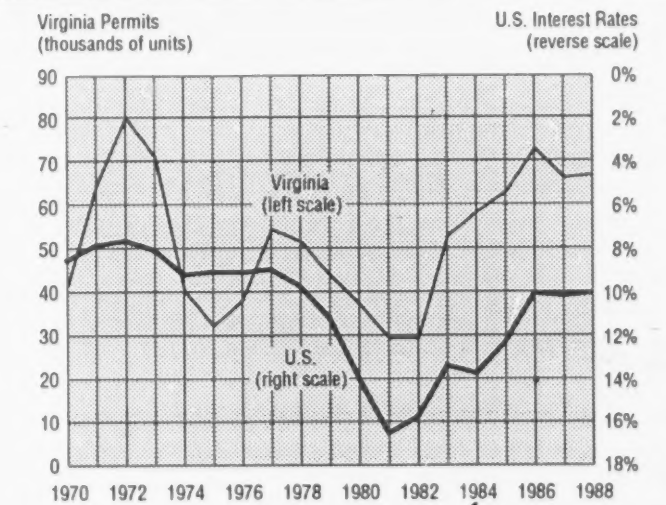
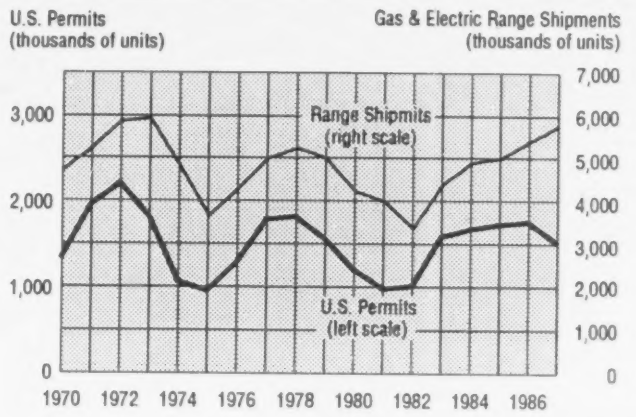


Figure 5.
U.S. Residential Permits and Manufacturers' Shipments of Gas and Electric Ranges: 1970–1987



Production of consumer durables such as gas and electric ranges closely follows construction activity.

Only four localities issued as many as one thousand residential permits for units in multi-unit structures. Fairfax County led the state with 3,449 permits. Arlington County ranked second with 2,332; Alexandria City was in third place with 1,702, and Norfolk City issued 1,003.

Planning Districts

Although interest rates heavily influence construction activity, other factors also play a role in determining an area's level of building activity. These elements include the demand for housing, the existing supply of available housing (at various prices), and the relative costs of home ownership versus renting. These are all components that play an important role in determining the health of the construction industry in an area.

Additionally, the Commonwealth does not constitute a single housing market that reacts uniformly throughout all of its regions and localities. When a major trend is changing (as was the case at the beginning of the current boom, and perhaps is true now) at its end, different parts of the state react more or less strongly to the events creating the changed conditions. Some localities will continue to have a strong housing market due to population growth and the internal dynamics of their local market. Other localities, with slower population growth, an oversupply of housing, or severely inflated housing prices will react more quickly to the slowdown in construction activity.

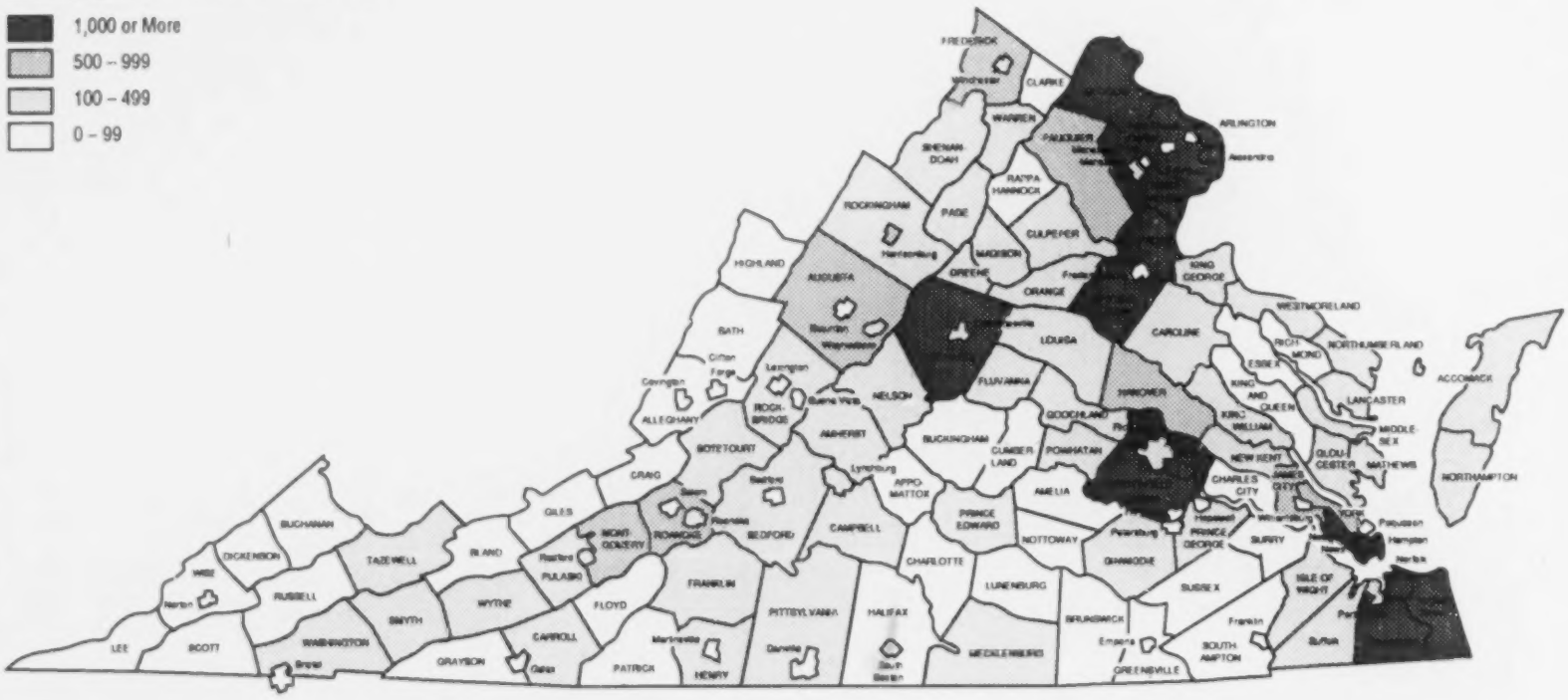
Analyzing construction activity on a regional basis shows the recurrence of a pattern seen in each of the last six years. Five of the state's 22 planning districts account for a significant proportion of all building permits issued. The Northern Virginia PD, which includes Fairfax County and other localities near Washington, D.C., led the state in 1989 with 17,055 permits, or 30.0 percent of all permits issued. The Richmond Regional PD, which includes Richmond City and its surrounding suburban localities, issued 7,595 permits—13.3 percent of the state total. The Southeastern Virginia PD, which includes Virginia Beach City and surrounding jurisdictions, ranked third with 7,314 permits issued—12.8 percent of the state total. RADCO PD, which includes the area around Fredericksburg City, issued 3,850 permits, 6.8 percent of the state total. Peninsula PD, which includes Hampton and Newport News cities, was in fifth place with 3,480 permits, 6.1 percent of the state total. Combined, these five PDs issued 39,294 permits, nearly 70 percent of all permits issued in Virginia.

While the regional pattern of construction activity follows an established pattern, an analysis of 1988–89 changes in permit activity offers some surprises. Although there was a statewide decline of 14 percent in the total number of residential permits issued during 1989, over half (12) of the state's PDs issued one-fifth or fewer permits than in 1988. Moreover, five PDs had declines of 40 percent or more. **Figure 7** shows the 1988–89 regional pattern of residential permit activity.

The largest percentage declines among the PDs occurred in two regions of the state—Southwest Virginia (LENOWISCO and Mount Rogers PDs), and South Central Virginia (Central Virginia, Southside, and Piedmont PDs). Each of these five planning districts has experienced either very slow growth or population losses since 1980. It is likely that the demand for new housing dissipated over the previous six years of the housing boom in these areas.

Seven PDs had moderately heavy losses, from 20 to 40 percent. Six PDs are in the state's "Golden Crescent"—including Northern Virginia, Rappahannock-Rapidan, Richmond Regional, Crater, Southeast Virginia, and Peninsula. The seventh, West Piedmont, is part of South Central Virginia. It is the former group of PDs that normally account for the majority of building activity in the state. These PDs are generally the states fastest growing. Lack of population growth, e.g., housing demand, is probably not the cause for the slowdown in their construction activity. A possible reason lies in the moderate increases in mortgage interest rates that occurred during 1989. These increases, when combined with the more stringent lending policies instituted by many savings and loan associations, may account for the construction downturn.

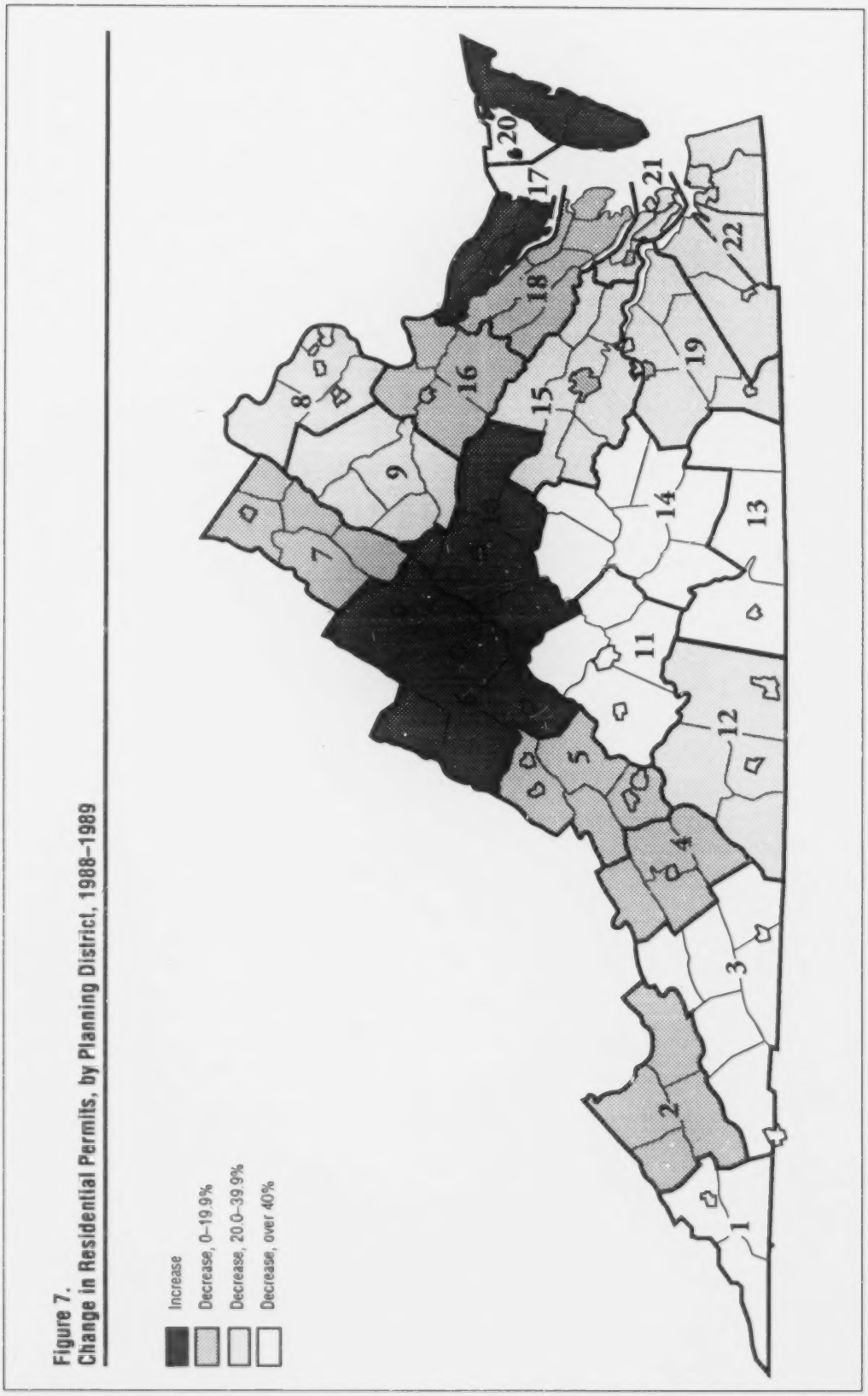
Figure 6.
Total Residential Permits Issued, 1989



Fifteen localities—all within Virginia's Golden Crescent—issued 1,000 or more residential permits during 1989. Combined, they issued about 62 percent of the state total.

Although there was a statewide decline of 14 percent in the total number of residential permits issued in 1989 over 1988, five PDs had declines of 40 percent or more. Over half (12) of the state's PDs issued one-fifth or fewer permits than in 1988.

Figure 7.
Change in Residential Permits, by Planning District, 1988–1989



Six PDs scattered throughout the state had declines of 20 percent or less. These include the Cumberland Plateau, New River Valley, Fifth, Lord Fairfax, RADCO, and Middle Peninsula PDs. Four of these PDs are west of the Blue Ridge, while two, RADCO and Middle Peninsula, lie in the arc of the Golden Crescent.

Only four PDs had increases in the number of residential permits issued between 1988 and 1989. These include the Central Shenandoah, with an increase of 17 percent; Thomas Jefferson, with an increase of 35 percent; Northern Neck, with an increase of 30 percent; and Accomack-Northampton, with an increase of 38 percent. Local conditions undoubtedly account for these four PDs being insulated from the statewide housing downturn, although the precise conditions responsible for the continued growth of housing in these areas are unknown. Also, increases within each PD are far from uniform. In the Central Shenandoah PD, for example, six localities increased the number of permits they issued between 1988 and 1989, but four localities had declines. In the Thomas Jefferson PD, Albemarle County more than doubled the number of permits issued between 1988 and 1989, accounting for almost all of its PD's increase. Three of the four localities in the Northern Neck PD (Lancaster, Northumberland, and Westmoreland counties) had large percentage increases in permit activity. The number of permits issued in Richmond County, however, fell by a fifth. In the Accomack-Northampton PD, Accomack County had a 46 percent increase in permit activity, while Northampton County increased by only 11 percent.

Metropolitan Statistical Areas

Another way of looking at the concentration of building activity in Virginia is to focus on the state's eight Metropolitan Statistical Areas (MSAs). The U.S. Office of Management and Budget defines the boundaries of MSAs. They are groupings of economically and socially integrated counties and cities. Six MSAs—including Charlottesville, Danville, Lynchburg, Norfolk-Virginia Beach-Newport News, Richmond–Petersburg, and Roanoke—lie wholly within Virginia's borders. Two MSAs—Washington, D.C., and Johnson City-Kingsport-Bristol—lie partially within the state.

Metropolitan areas include the state's largest cities and counties and therefore contain most of the population of the state. It is thus not surprising to find most building activity located in these areas. In fact, historic permit and population statistics over the past several years document that building activity is slightly more concentrated in the state's MSAs than is the population.

Three MSAs had particularly high levels of building activity during 1989. The portion of the Washington, D.C. MSA in Virginia issued permits for 18,739 units, equivalent to a third of the state total. The Norfolk-Virginia Beach-Portsmouth MSA issued 10,598 permits, nearly a fifth of the state total. The Richmond-Petersburg MSA issued 8,118 permits, equal to 14 percent of the state total. While these three MSAs led the state in construction, each suffered a large decrease in building activity compared to 1988. The Washington, D.C. MSA, for example, was off 21.4 percent, the Norfolk-Virginia Beach-Portsmouth MSA was down 21.7 percent, and the Richmond-Petersburg MSA fell by 22.8 percent.

NONRESIDENTIAL TRENDS

Residential permit activity is often taken as indicative of the attractiveness of a locality to individuals and families. Nonresidential building activity may be interpreted in much the same way, with the difference that the "attraction" is towards the business community. There is a significant degree of overlap between the location of residential and nonresidential building activity. Population converges around business locations, and businesses decentralize to move closer to consumers and the labor force.

The 1989 decline in nonresidential permits is consistent with the behavior of the residential housing sector, which also experienced a sizable slow-down in activity during the year.

During 1989, 10,338 nonresidential building permits were issued in Virginia, 13 percent less than the 11,850 permits issued in 1988. This is only the second time since 1980 that the number of nonresidential permits has declined from one year to the next. The first time was in the middle of the last recession, between 1980 and 1981. The 1989 decline in nonresidential permits is consistent with the behavior of the residential housing sector, which also experienced a sizable slow-down in activity during the year.

The value of nonresidential permits issued in 1989, in current dollars, was $1.88 billion, a decrease of 25 percent compared to 1988 (see Table 2). The 1989 total was $1.52 billion in constant dollars , off 28 percent from the $2.11 billion reached in 1988.

Nonresidential construction not only declined in Virginia during 1989, it also slowed for the entire nation. Nonresidential construction peaked in the U.S. in 1986 when 512,000 permits were issued. Each year since then has seen activity decline. The 1988–89 reduction, 8 percent, is by far the largest of these annual losses. In 1989 only 450,000 permits were issued for nonresidential construction, with a total value of $48.4 billion in current dollars, or $39.3 billion in constant dollars. These

dollar figures are off 6 and 10 percent from their respective 1988 totals. Judged on the basis of total permit value in constant dollars, 1989 ranks as the third worse year of the decade. Only 1982 and 1983 recorded lower totals.

Categories of Nonresidential Construction

In analyzing nonresidential construction by building type it is important to distinguish between the number of permits issued in a particular category and the dollar value for that category. Each year a majority of building permits are issued in the "other" nonresidential building category, which includes such structures as barns, silos, pump houses, and certain types of government owned buildings. In 1989 nearly 70 percent of all permits issued were in this category, but the total value of these permits equaled less than 4 percent of the state total. By way of contrast, the category "office, bank, and professional buildings" accounted for only 8 percent of all permits issued, but their total value was over a third of the state total.

Based on dollar volume office, banks, and professional buildings rank first in the state, with a total value of $708 million, or $574 million in constant dollars. The number of office, banks, and professional building permits fell by a quarter compared to 1988, and their total value declined 40 percent. The second largest category is stores and mercantile buildings at $539 million, or $437 million in constant dollars. The number of stores and mercantile building permits issued was off 16 percent from 1988, and their total value down 27 percent. In third place are industrial buildings, at $201 million in current dollars or $163 million in constant dollars. Although the number of industrial building permits issued declined 16 percent, their total value increased slightly, up 0.8 percent. Church, hospital, and school buildings rank fourth, with permits valued at $129 million (current dollars) or $104 million (constant dollars). The number of permits issued in this category grew about 8 percent over the 1988 figure, but their total value declined by nearly a tenth. Figure 8 shows the number of permits issued in each of the four major nonresidential building categories annually from 1980 to 1989. Figure 9 shows the total value of these permits in constant dollars.

Nonresidential construction is even more highly concentrated in specific areas of the state than residential construction. The Northern Virginia PD, for example, accounts for nearly 50 percent of the state total. The Southeastern Virginia PD contributed 9 percent to the state total, while the Richmond Regional PD accounted for 8 percent. These are the only three PDs in the Commonwealth with more than 5 percent of the total value of all nonresidential construction. Combined, these three planning districts account for nearly two-thirds of the total value of nonresidential construction in the state, and for a third of the total number of permits issued.

Fifteen localities account for most nonresidential construction in Virginia. Based on the value of permits issued, these jurisdictions include: (1) Fairfax County, $527.9 million; (2) Alexandria City, $144.1 million; (3) Prince William County, $81.0 million; (4) Virginia Beach City, $78.2 million; (5) Arlington County, $75.5 million; (6) Henrico County, $74.4 million; (7) Loudoun County, $74.3 million; (8) Surry County, $66.4 million; (9) Newport News City, $47.1 million; (10) Chesapeake City, $42.9 million; (11) Lynchburg City, $42.1 million; (12) Chesterfield County, $38.1 million; (13) Norfolk City, $33.1 million; (14) Albemarle County, $31.7 million; (15) Stafford County, $25.1 million.

Seventeen localities issued permits valued over $5 million for the construction of new office, bank, or professional buildings. The top five localities are Fairfax County, with $309 million; second is Arlington County, with $63 million; third is Loudoun County, with $50 million; fourth is Henrico County, with $41 million; fifth is Alexandria City with $33 million. Other localities with over $5 million, listed in descending order, include Virginia Beach City, Lynchburg City, Norfolk City, Newport News City, Chesterfield County, Chesapeake

Nonresidential construction is even more highly concentrated in specific areas of the state than residential construction. The Northern Virginia PD, for example, accounts for nearly 50 percent of the state total.

City, Stafford County, Roanoke County, Fauquier County, Prince William County, Hanover County, and Richmond City.

A total of 19 localities issued permits valued at $5 million or more in the category of stores and mercantile buildings. The first five localities are Alexandria City, at $109 million; Fairfax County, at $90 million; Prince William County, at $48 million; Virginia Beach City, at $26 million; Chesapeake City, at $21 million. Other localities that issued permits valued over $5 million, listed in descending order, include: Chesterfield County, Spotsylvania County, Henrico County, Loudoun County, Stafford County, Winchester City, Norfolk City, Hanover County, Lynchburg City, Albemarle County, Prince Edward County, Harrisonburg City, Hampton City, and Newton City.

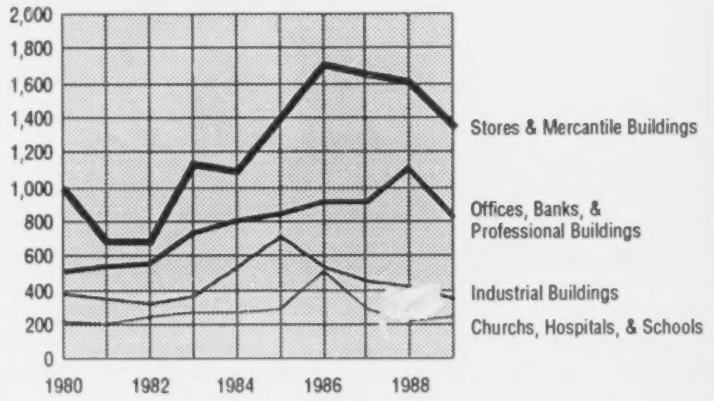
Eleven localities issued permits valued at $5 million or more in the category of industrial buildings. In order these are: Newport News City ($23 million), Prince William County ($21 million), Fairfax County ($19 million), Covington City ($14 million), Amherst County ($12 million), Loudoun County ($12 million), Henrico County ($8 million), Orange County ($7 million), Richmond City ($6 million), Virginia Beach City ($5 million), and Chesterfield County ($5 million).

Five jurisdictions issued permits valued at $5 million or more in the category of church, hospital, or school buildings. These include Fairfax County ($29 million), Albemarle County ($15 million), Virginia Beach City ($14 million), James City County ($12.5 million), and Henrico County ($6 million).

Three jurisdictions issued permits valued at $5 million or more in the category of amusement and recreational buildings. These include Lynchburg City, at $8 million; Fairfax County, at $8 million; and Chesapeake City, at $6 million.

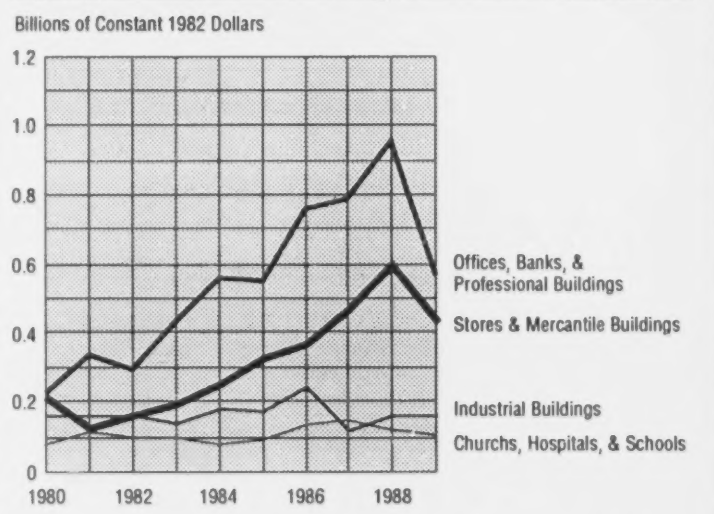
Only two localities issued permits valued at $5 million or more in the categories of parking garages (Fairfax County, at $74 million, and Arlington County, at $8 million), and public works and utility buildings (Surry County, at $66 million, and Hopewell City, at $10 million).

Figure 8.
Number of Nonresidential Permits Issued, by Type, Virginia: 1980–1989



In nonresidential construction the "office, bank, and professional buildings" category accounted for only 8 percent of all permits issued, but their total value was over a third of the state total; "other" accounted for 70 percent of the permits but only 4 percent of the total value.

Figure 9.
Total Value of Nonresidential Permits Issued, by Type, Virginia: 1980–1989



About the Tables

In this report, tables 1 and 2 give annual statewide totals for the value of residential and nonresidential construction. Table 3 presents the number of residential building permits issued for housing units in Virginia counties, cities, planning districts, and Metropolitan Statistical Areas for 1989. Table 4 presents data on permits issued for nonresidential construction during the year. Tables 5 and 6 provide historical data (1980–89) on the total number of permits issued annually. Tables 7 and 8 show the annual percentage change in the total number of permits issued. Table 7 contains data for residential housing units and Table 8 contains data for nonresidential construction. Readers should carefully note that, unlike the data in Tables 3 and 5, permits tabulated in tables 4 and 6 are for buildings, rather than for units. Appendix 1 describes the categories used in tabulating nonresidential construction.

In all of the tables the official titles for several Metropolitan Statistical Areas have been abbreviated or modified in order to conserve space. The Washington, D.C. MSA is thus listed as "Northern Virginia"; Richmond-Petersburg MSA is listed as "Richmond"; Johnson City-Kingsport-Bristol MSA is listed as "Bristol"; and the Norfolk-Virginia Beach-Newport News MSA is listed as "Norfolk."

Table 1.
Aggregate Value of Residential Construction, Virginia: 1980–1989

Year	Value of Construction in Current Dollars (in Millions $)	Percent Change from Preceding Year	Census Bureau Construction Cost Index	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)	Percent Change from Preceding Year
1980	$1,317.7	–	90.6	$1,454.4	–
1981	1,099.1	–16.6%	97.7	1,125.0	–22.7%
1982	1,216.8	10.7	100.0	1,216.8	8.2
1983	2,205.1	81.2	102.7	2,147.1	76.5
1984	2,535.2	15.0	106.6	2,378.2	10.8
1985	2,900.0	14.4	109.8	2,641.2	11.1
1986	3,645.1	25.7	111.9	3,257.5	23.3
1987	3,640.0	–0.1	114.4	3,181.9	–2.3
1988	4,041.3	11.0	116.2	3,477.9	9.3
1989	3,922.0	–3.0	120.0	3,268.3	–6.0

SOURCES: Census Bureau Construction Cost Index from *Construction Review*, (January-February 1990), Table E–1A; annual data from previous editions of *Housing Units Authorized*.
NOTES: Deflated value = current value x (100 / index value).
Value of construction excludes mobile homes.
Census Bureau Construction Cost Index revised for 1983-88.

Table 2.
Aggregate Value of Nonresidential Construction, Virginia: 1980–1989

Year	Value of Construction in Current Dollars (in Millions $)	Percent Change from Preceding Year	Boeckh Index for Commercial & Factory Buildings	Deflated Value of Construction in Constant 1982 Dollars (in Millions $)	Percent Change from Preceding Year
1980	$664.9	–	84.1	$790.6	–
1981	781.6	17.6%	92.2	847.7	7.2%
1982	790.4	1.1	100.0	790.4	–6.8
1983	1,013.6	28.2	105.3	962.6	21.8
1984	1,242.8	22.6	109.4	1,136.0	18.0
1985	1,425.5	14.6	111.3	1,280.8	12.7
1986	1,855.1	30.2	113.2	1,638.8	28.1
1987	1,976.6	6.6	115.1	1,717.3	4.8
1988	2,505.4	26.8	118.5	2,114.3	23.1
1989	1,877.2	–25.1	123.4	1,521.2	–28.1

SOURCES: Boeckh Index from U.S. Department of Commerce, *Construction Review*, (January-February 1990), Table E-1; annual data from previous editions of *Housing Units Authorized*.
NOTES: The Boeckh Index is an independent index of construction costs compiled by The American Appraisal Company, Inc.
Deflated value = current value x (100 / index value).

Table 3.
Residential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Units Authorized		Single Units		Duplex Units	
		Number	$000	Number	$000	Number	$000
	COUNTIES						
1	Accomack	489	$ 34,899.6	423	$ 29,239.6	18	$ 660.0
2	Albemarle	1,203	99,669.0	589	66,636.9	36	2,086.0
3	Alleghany	39	2,603.7	39	2,603.7	0	0.0
4	Amelia	63	3,390.0	63	3,390.0	0	0.0
5	Amherst	145	8,588.0	139	8,410.0	6	178.0
6	Appomattox	42	2,625.7	42	2,625.7	0	0.0
7	Arlington	2,506	156,899.0	174	13,389.0	0	0.0
8	Augusta	604	36,689.4	485	33,687.2	0	0.0
9	Bath[1]	24	2,049.2	24	2,049.2	0	0.0
10	Bedford	439	51,410.6	423	51,410.6	6	0.0
11	Bland	30	1,885.7	30	1,885.7	0	0 0
12	Botetourt	200	15,215.7	182	14,609.3	0	0.0
13	Brunswick	40	2,277.5	40	2,277.5	0	0.0
14	Buchanan	39	1,571.8	39	1,571.8	0	0.0
15	Buckingham	40	1,914.8	40	1,914.8	0	0.0
16	Campbell	185	11,063.8	137	10,054.8	0	0.0
17	Caroline[2]	215	14,120.0	215	14,120.0	0	0.0
18	Carroll	115	6,824.0	105	6,333.0	4	275.0
19	Charles City	44	3,204.8	44	3,204.8	0	0.0
20	Charlotte	59	2,806.8	59	2,806.8	0	0.0
21	Chesterfield	3,362	203,827.2	2,790	189,566.0	2	60.0
22	Clarke	82	7,688.4	82	7,688.4	0	0.0
23	Craig	37	1,745.8	37	1,745.8	0	0.0
24	Culpeper	447	46,960.7	447	46,960.7	0	0.0
25	Cumberland	33	1,701.6	33	1,701.6	0	0.0
26	Dickenson	29	896.7	29	896.7	0	0.0
27	Dinwiddie	132	6,043.0	132	6,043.0	0	0.0
28	Essex	64	4,069.7	60	3,929.7	0	0.0
29	Fairfax	7,904	602,127.9	4,455	411,317.2	0	0.0
30	Fauquier	627	87,729.3	547	85,108.3	2	230.0
31	Floyd	67	3,320.5	67	3,320.5	0	0.0
32	Fluvanna	270	18,867.8	270	18,867.8	0	0.0
33	Franklin	322	22,405.1	318	22,368.1	4	37.0
34	Frederick	902	58,397.1	852	56,391.1	50	2,006.0
35	Giles	25	941.5	25	941.5	0	0.0
36	Gloucester	199	17,612.7	171	16,471.4	28	1,141.3
37	Goochland	194	16,001.0	194	16,001.0	0	0.0
38	Grayson	82	3,713.7	82	3,713.7	0	0.0
39	Greene	160	10,836.5	155	10,656.8	0	0.0
40	Greensville	26	1,486.4	20	1,361.4	6	125.0
41	Halifax	80	3,756.2	80	3,756.2	0	0.0
42	Hanover	995	66,774.4	989	66,582.4	0	0.0
43	Henrico	2,324	117,148.2	1,773	106,604.8	0	0.0
44	Henry	222	13,644.5	167	11,774.5	2	60.0
45	Highland	16	624.3	16	624.3	0	0.0

3–4 Units		5+ Units			Total Housing Units Less Number of	
Number	$000	Number	$000	Demolitions	Demolitions	Line
0	$ 0.0	48	$ 5,000.0	1	488	1
75	4,243.7	503	26,702.5	0	1,203	2
0	0.0	0	0.0	7	32	3
0	0.0	0	0.0	0	63	4
0	0.0	0	0.0	0	145	5
0	0.0	0	0.0	1	41	6
0	0.0	2,332	143,510.0	72	2,434	7
3	65.0	116	2,937.2	9	595	8
0	0.0	0	0.0	0	24	9
3	0.0	7	0.0	0	439	10
0	0.0	0	0.0	0	30	11
12	405.2	6	201.3	0	200	12
0	0.0	0	0.0	0	40	13
0	0.0	0	0.0	0	39	14
0	0.0	0	0.0	0	40	15
16	409.0	32	600.0	14	171	16
0	0.0	0	0.0	0	215	17
0	0.0	6	216.0	2	113	18
0	0.0	0	0.0	2	42	19
0	0.0	0	0.0	0	59	20
40	817.3	530	13,383.9	0	3,362	21
0	0.0	0	0.0	7	75	22
0	0.0	0	0.0	0	37	23
0	0.0	0	0.0	8	439	24
0	0.0	0	0.0	0	33	25
0	0.0	0	0.0	0	29	26
0	0.0	0	0.0	0	132	27
4	140.0	0	0.0	0	64	28
0	0.0	3,449	190,810.7	56	7,848	29
0	0.0	78	2,391.0	5	622	30
0	0.0	0	0.0	0	67	31
0	0.0	0	0.0	0	270	32
0	0.0	0	0.0	4	318	33
0	0.0	0	0.0	0	902	34
0	0.0	0	0.0	5	20	35
0	0.0	0	0.0	0	199	36
0	0.0	0	0.0	0	194	37
0	0.0	0	0.0	0	82	38
0	0.0	5	179.7	0	160	39
0	0.0	0	0.0	0	26	40
0	0.0	0	0.0	0	80	41
0	0.0	6	192.0	2	993	42
20	746.7	531	9,796.7	24	2,300	43
12	310.0	41	1,500.0	3	219	44
0	0.0	0	0.0	2	14	45

Table 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Units Authorized		Single Units		Duplex Units	
		Number	$000	Number	$000	Number	$000
	COUNTIES (continued)						
46	Isle of Wight	251	$ 37,773.1	239	$ 37,461.1	0	$ 0.0
47	James City	709	75,445.7	657	73,270.0	12	910.0
48	King and Queen	35	1,863.3	35	1,863.3	0	0.0
49	King George	202	41,042.0	176	40,419.0	4	103.0
50	King William	211	10,016.0	162	8,920.6	2	52.0
51	Lancaster	254	27,066.0	192	23,468.8	0	0.0
52	Lee	38	1,473.2	38	1,473.2	0	0.0
53	Loudoun	1,442	103,794.2	1,426	103,239.1	10	405.0
54	Louisa	351	14,896.0	329	14,077.8	6	143.1
55	Lunenburg	54	2,793.6	54	2,793.6	0	0.0
56	Madison	136	9,402.5	132	9,202.5	4	200.0
57	Mathews	114	8,605.4	114	8,605.4	0	0.0
58	Mecklenburg[3]	159	9,258.3	117	7,941.9	4	120.0
59	Middlesex	151	13,433.4	124	13,011.2	0	0.0
60	Montgomery	784	36,234.2	392	24,681.8	56	1,957.0
61	Nelson	175	18,503.8	175	18,503.8	0	0.0
62	New Kent	158	10,903.1	158	10,903.1	0	0.0
63	Northampton	116	7,531.4	88	6,610.4	4	141.0
64	Northumberland	312	28,797.0	312	28,797.0	0	0.0
65	Nottoway	39	1,801.7	39	1,801.7	0	0.0
66	Orange	353	26,654.3	353	26,654.3	0	0.0
67	Page	213	8,632.1	151	8,272.9	14	417.0
68	Patrick	62	3,038.0	62	3,038.0	0	0.0
69	Pittsylvania	263	15,937.2	259	15,857.2	0	0.0
70	Powhatan	256	16,715.0	256	16,715.0	0	0.0
71	Prince Edward	105	5,254.2	77	4,601.2	2	55.0
72	Prince George	232	14,391.3	226	14,211.3	6	180.0
73	Prince William	2,886	187,204.6	2,106	157,236.6	0	0.0
74	Pulaski	159	6,856.5	88	5,068.2	2	77.0
75	Rappahannock	76	8,785.6	74	8,690.6	2	95.0
76	Richmond	43	2,618.8	38	2,450.8	2	18.0
77	Roanoke	625	33,176.6	449	29,031.1	0	0.0
78	Rockbridge	144	10,288.1	140	10,213.1	0	0.0
79	Rockingham	457	28,042.2	352	25,704.6	2	45.0
80	Russell	54	2,537.6	54	2,537.6	0	0.0
81	Scott	48	2,308.5	48	2,308.5	0	0.0
82	Shenandoah	462	27,704.5	341	24,676.5	0	0.0
83	Smyth	133	4,951.0	89	3,797.0	22	460.0
84	Southampton	63	4,017.3	63	4,017.3	0	0.0
85	Spotsylvania	1,742	190,398.1	1,582	186,346.3	0	0.0
86	Stafford	1,684	131,918.1	1,626	129,910.3	6	266.0
87	Surry	95	3,312.2	47	2,302.2	0	0.0
88	Sussex	19	1,296.8	17	1,256.8	2	40.0
89	Tazewell	118	4,957.7	105	4,739.1	0	0.0
90	Warren	424	27,065.9	424	27,065.9	0	0.0

3–4 Units		5+ Units			Total Housing Units Less Number of	
Number	$000	Number	$000	Demolitions	Demolitions	Line
0	$ 0.0	12	$ 312.0	0	251	46
0	0.0	40	1,265.7	6	703	47
0	0.0	0	0.0	0	35	48
0	0.0	22	520.0	5	197	49
20	409.2	27	634.2	5	206	50
32	1,890.2	30	1,707.0	6	248	51
0	0.0	0	0.0	0	38	52
0	0.0	6	150.1	0	1,442	53
16	675.2	0	0.0	0	351	54
0	0.0	0	0.0	0	54	55
0	0.0	0	0.0	0	136	56
0	0.0	0	0.0	7	107	57
0	0.0	38	1,196.4	4	155	58
0	0.0	27	422.2	1	150	59
6	230.0	330	9,365.4	8	776	60
0	0.0	0	0.0	1	174	61
0	0.0	0	0.0	2	156	62
24	780.0	0	0.0	1	115	63
0	0.0	0	0.0	0	312	64
0	0.0	0	0.0	8	31	65
0	0.0	0	0.0	1	352	66
4	30.0	44	912.2	3	210	67
0	0.0	0	0.0	0	62	68
4	80.0	0	0.0	2	261	69
0	0.0	0	0.0	0	256	70
0	0.0	26	598.0	2	103	71
0	0.0	0	0.0	3	229	72
0	0.0	780	29,968.0	13	2,873	73
0	0.0	69	1,711.3	4	155	74
0	0.0	0	0.0	0	76	75
3	150.0	0	0.0	0	43	76
16	435.8	160	3,709.8	13	612	77
4	75.0	0	0.0	2	142	78
10	359.2	93	1,933.4	4	453	79
0	0.0	0	0.0	0	54	80
0	0.0	0	0.0	0	48	81
0	0.0	121	3,028.0	2	460	82
11	324.0	11	370.0	0	133	83
0	0.0	0	0.0	7	56	84
0	0.0	160	4,051.8	10	1,732	85
16	198.6	36	1,543.2	5	1,679	86
0	0.0	48	1,010.0	6	89	87
0	0.0	0	0.0	2	17	88
8	134.5	5	84.1	0	118	89
0	0.0	0	0.0	6	418	90

Table 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Units Authorized		Single Units		Duplex Units	
		Number	$000	Number	$000	Number	$000
	COUNTIES (continued)						
91	Washington	223	$ 11,632.6	200	$ 10,757.9	10	$ 576.2
92	Westmoreland	238	19,260.7	238	19,260.7	0	0.0
93	Wise[4]	72	3,207.3	72	3,207.3	0	0.0
94	Wythe	122	7,072.3	88	6,372.3	4	105.0
95	York	551	39,901.1	457	35,371.1	0	0.0
	CITIES						
96	Alexandria	2,013	120,461.1	311	57,149.7	0	0.0
97	Bedford	15	751.4	9	599.4	6	152.0
98	Bristol	45	1,523.9	45	1,523.9	0	0.0
99	Buena Vista	26	1,169.7	26	1,169.7	0	0.0
100	Charlottesville	154	5,620.5	23	1,668.5	18	642.0
101	Chesapeake	2,108	174,575.7	1,638	151,213.0	12	410.3
102	Clifton Forge	2	90.0	2	90.0	0	0.0
103	Colonial Heights	49	3,537.5	49	3,537.5	0	0.0
104	Covington	4	156.3	2	106.3	2	50.0
105	Danville	36	2,908.0	34	2,883.0	2	25.0
106	Emporia	24	812.2	6	283.0	0	0.0
107	Fairfax	4	444.3	4	444.3	0	0.0
108	Falls Church	7	1,487.0	7	1,487.0	0	0.0
109	Franklin	81	3,011.6	23	1,846.2	2	54.0
110	Fredericksburg	7	753.2	7	753.2	0	0.0
111	Galax	7	616.0	7	616.0	0	0.0
112	Hampton	1,012	45,045.3	736	36,930.3	0	0.0
113	Harrisonburg	777	31,550.5	235	14,173.2	12	663.0
114	Hopewell	56	2,389.7	56	2,389.7	0	0.0
115	Lexington	9	508.5	5	328.5	4	180.0
116	Lynchburg	223	12,365.5	159	10,387.5	34	1,048.0
117	Manassas	293	19,536.8	277	18,801.1	0	0.0
118	Manassas Park	0	0.0	0	0.0	0	0.0
119	Martinsville	45	2,391.4	39	2,251.4	6	140.0
120	Newport News	1,130	50,291.4	1,054	48,747.0	0	0.0
121	Norfolk	1,223	37,570.0	220	13,766.5	82	2,666.0
122	Norton	2	200.0	2	200.0	0	0.0
123	Petersburg	54	1,824.3	34	1,156.3	12	498.0
124	Poquoson	38	4,995.1	38	4,995.1	0	0.0
125	Portsmouth	301	14,481.1	183	11,804.1	16	467.0
126	Radford	214	7,076.5	34	1,850.9	0	0.0
127	Richmond	262	15,869.7	244	14,824.4	0	0.0
128	Roanoke	201	8,195.9	108	5,883.1	30	757.1
129	Salem	69	5,124.9	69	5,124.9	0	0.0
130	South Boston	10	530.5	10	530.5	0	0.0
131	Staunton	77	3,233.5	65	2,983.5	2	50.0
132	Suffolk	350	20,528.4	268	18,737.7	22	710.7
133	Virginia Beach	2,937	206,718.8	2,297	180,606.0	64	5,046.1
134	Waynesboro	102	4,857.4	40	3,438.7	10	222.0
135	Williamsburg	40	6,418.1	28	4,508.1	0	0.0
136	Winchester	202	13,569.4	90	10,071.8	0	0.0

3–4 Units		5+ Units			Total Housing Units Less Number of	
Number	$000	Number	$000	Demolitions	Demolitions	Line
13	$ 298.5	0	$ 0.0	1	222	91
0	0.0	0	0.0	0	238	92
0	0.0	0	0.0	0	72	93
4	120.0	26	475.0	5	117	94
20	1,815.0	74	2,715.0	14	537	95
0	0.0	1,702	63,311.4	23	1,990	96
0	0.0	0	0.0	6	9	97
0	0.0	0	0.0	22	23	98
0	0.0	0	0.0	0	26	99
0	0.0	113	3,310.0	8	146	100
67	3,933.7	391	19,018.7	43	2,065	101
0	0.0	0	0.0	0	2	102
0	0.0	0	0.0	4	45	103
0	0.0	0	0.0	10	–6	104
0	0.0	0	0.0	65	–29	105
4	105.7	14	423.4	0	24	106
0	0.0	0	0.0	2	2	107
0	0.0	0	0.0	0	7	108
0	0.0	56	1,111.4	3	78	109
0	0.0	0	0.0	7	0	110
0	0.0	0	0.0	2	5	111
54	4,203.5	222	3,911.5	26	986	112
108	2,706.0	422	14,008.3	5	772	113
0	0.0	0	0.0	25	31	114
0	0.0	0	0.0	2	7	115
6	180.0	24	750.0	30	193	116
0	0.0	16	735.7	11	282	117
0	0.0	0	0.0	1	–1	118
0	0.0	0	0.0	17	28	119
24	912.0	52	632.4	135	995	120
15	878.5	906	20,259.0	342	881	121
0	0.0	0	0.0	6	–4	122
0	0.0	8	170.0	42	12	123
0	0.0	0	0.0	6	32	124
0	0.0	102	2,210.0	21	280	125
0	0.0	180	5,225.6	22	192	126
8	420.3	10	625.0	71	191	127
15	292.1	48	1,263.5	53	148	128
0	0.0	0	0.0	6	63	129
0	0.0	0	0.0	0	10	130
0	0.0	10	200.0	6	71	131
6	190.0	54	890.0	92	258	132
56	2,766.5	520	18,300.2	93	2,844	133
52	1,196.7	0	0.0	16	86	134
12	1,910.0	0	0.0	3	37	135
0	0.0	112	3,497.6	39	163	136

Table 3. (continued)
Residential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Units Authorized		Single Units		Duplex Units	
		Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS						
137	LENOWISCO	160	$ 7,189.0	160	$ 7,189.0	0	$ 0.0
138	Cumberland Plateau	240	9,963.8	227	9,745.2	0	0.0
139	Mount Rogers	757	38,219.2	646	34,999.5	40	1,416.2
140	New River Valley	1,249	54,429.2	606	35,862.9	58	2,034.0
141	Fifth	1,177	66,308.9	888	59,194.1	32	807.1
142	Central Shenandoah	2,236	119,012.8	1,388	94,372.0	30	1,160.0
143	Lord Fairfax	2,285	144,057.4	1,940	134,166.6	64	2,423.0
144	Northern Virginia	17,055	1,191,955.0	8,760	763,064.1	10	405.0
145	Rappahannock-Rapidan	1,639	179,532.3	1,553	176,616.4	8	525.0
146	Thomas Jefferson	2,313	168,393.7	1,541	130,411.6	60	2,871.1
147	Central Virginia	1,049	86,804.9	909	83,487.9	52	1,378.0
148	West Piedmont	950	60,324.3	879	58,172.3	14	262.0
149	Southside	289	15,822.5	247	14,506.1	4	120.0
150	Piedmont	393	19,662.7	365	19,009.7	2	55.0
151	Richmond Regional	7,595	450,443.3	6,448	424,401.5	2	60.0
152	RADCO	3,850	378,231.4	3,606	371,548.7	10	369.0
153	Northern Neck	847	77,742.5	780	73,977.3	2	18.0
154	Middle Peninsula	774	55,600.4	666	52,801.5	30	1,193.3
155	Crater	687	35,093.3	587	32,541.2	26	843.0
156	Southeastern Virginia	7,314	498,676.0	4,931	419,451.9	198	9,354.1
157	Peninsula	3,480	222,096.7	2,970	203,821.6	12	910.0
158	Accomack-Northampton	605	42,431.0	511	35,850.0	22	801.0
	METROPOLITAN STATISTICAL AREAS						
159	Bristol (Va. portion)	316	15,465.0	293	14,590.3	10	576.2
160	Charlottesville	1,787	134,993.9	1,037	97,830.0	54	2,728.0
161	Danville	299	18,845.2	293	18,740.2	2	25.0
162	Lynchburg	553	32,017.3	435	28,852.3	40	1,226.0
163	Norfolk	10,598	693,583.4	7,747	596,420.3	236	11,351.4
164	Northern Virginia	18,739	1,323,873.1	10,386	892,974.3	16	671.0
165	Richmond	8,118	478,629.1	6,945	451,739.2	20	738.0
166	Roanoke	1,095	61,713.1	808	54,648.3	30	757.1
167	TOTAL METROPOLITAN	41,505	2,759,120.1	27,944	2,155,795.0	408	18,072.8
168	TOTAL NONMETROPOLITAN	15,439	1,162,870.3	12,664	1,079,396.0	268	8,932.1
169	TOTAL COUNTIES	42,735	3,088,799.3	32,124	2,595,330.0	340	13,223.6
170	TOTAL CITIES	14,209	833,191.0	8,484	639,861.0	336	13,781.2
171	VIRGINIA	56,944	3,921,990.4	40,608	3,235,191.0	676	27,004.8

[1] Bath County reported 10 months.
[2] Bowling Green Town did not report. The balance of Caroline County reported 12 months.
[3] Chase City Town did not report. The balance of Mecklenburg County reported 12 months.
[4] St. Paul Town reported 8 months. The balance of Wise County reported 12 months.

3–4 Units		5+ Units			Total Housing Units Less Number of Demolitions	
Number	$000	Number	$000	Demolitions		Line
0	$ 0.0	0	$ 0.0	6	154	137
8	134.5	5	84.1	0	240	138
28	742.5	43	1,061.0	32	725	139
6	230.0	579	16,302.3	39	1,210	140
43	1,133.1	214	5,174.6	89	1,088	141
177	4,401.9	641	19,078.9	46	2,190	142
4	30.0	277	7,437.8	57	2,228	143
0	0.0	8,285	428,485.9	178	16,877	144
0	0.0	78	2,391.0	14	1,625	145
91	4,918.9	621	30,192.2	9	2,304	146
25	589.0	63	1,350.0	51	998	147
16	390.0	41	1,500.0	91	859	148
0	0.0	38	1,196.4	4	285	149
0	0.0	26	598.0	10	383	150
68	1,984.3	1,077	23,997.6	101	7,494	151
16	198.6	218	6,115.1	27	3,823	152
35	2,040.2	30	1,707.0	6	841	153
24	549.2	54	1,056.4	13	761	154
4	105.7	70	1,603.4	82	605	155
144	7,768.7	2,041	62,101.3	601	6,713	156
110	8,840.5	388	8,524.6	190	3,290	157
24	780.0	48	5,000.0	2	603	158
13	298.5	0	0.0	23	293	159
75	4,243.7	621	30,192.2	8	1,779	160
4	80.0	0	0.0	67	232	161
22	589.0	56	1,350.0	44	509	162
254	16,609.2	2,361	69,202.5	781	9,817	163
16	198.6	8,321	430,029.1	183	18,556	164
68	1,984.3	1,085	24,167.6	175	7,943	165
43	1,133.1	214	5,174.6	72	1,023	166
495	25,136.3	12,658	560,116.0	1,353	40,152	167
328	9,700.7	2,179	64,841.6	295	15,144	168
396	15,141.9	9,875	465,103.9	383	42,352	169
427	19,695.1	4,962	159,853.7	1,265	12,944	170
823	34,837.0	14,837	624,957.6	1,648	55,296	171

Table 4.
Nonresidential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
		Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES								
1	Accomack	156	$ 3,117.1	0	$ 0.0	3	$ 440.0	1	$ 10.0
2	Albemarle	204	31,696.9	1	2,900.0	13	15,391.4	1	35.0
3	Alleghany	35	1,967.1	0	0.0	1	1,300.0	2	51.0
4	Amelia[1]	–	–	–	–	–	–	–	–
5	Amherst	47	17,085.7	0	0.0	0	0.0	3	12,064.0
6	Appomattox	4	1,249.2	0	0.0	0	0.0	0	0.0
7	Arlington	12	75,480.8	0	0.0	1	1,003.3	0	0.0
8	Augusta	257	5,993.4	2	32.0	1	15.0	2	250.0
9	Bath[2]	2	140.4	0	0.0	1	100.9	0	0.0
10	Bedford[1]	–	–	–	–	–	–	–	–
11	Bland	2	729.6	0	0.0	0	0.0	2	729.6
12	Botetourt[1]	–	–	–	–	–	–	–	–
13	Brunswick	1	1,111.0	0	0.0	0	0.0	1	1,111.0
14	Buchanan	12	533.2	0	0.0	1	75.0	0	0.0
15	Buckingham	48	482.5	1	80.0	0	0.0	0	0.0
16	Campbell	68	5,994.1	2	55.8	1	350.8	3	522.0
17	Caroline[3]	6	1,844.3	0	0.0	0	0.0	1	139.0
18	Carroll	38	6,023.9	0	0.0	9	1,020.0	3	3,976.2
19	Charles City	32	1,227.9	0	0.0	0	0.0	0	0.0
20	Charlotte	11	248.0	0	0.0	0	0.0	1	180.0
21	Chesterfield	126	38,143.1	5	992.4	9	2,693.0	9	5,218.9
22	Clarke	44	2,661.7	1	59.5	4	2,026.0	0	0.0
23	Craig[1]	–	–	–	–	–	–	–	–
24	Culpeper	38	8,959.6	4	1,100.0	1	408.0	1	1,500.0
25	Cumberland	4	285.0	0	0.0	1	20.0	0	0.0
26	Dickenson	1	1,046.3	0	0.0	0	0.0	1	1,046.3
27	Dinwiddie	191	2,002.6	0	0.0	1	138.0	1	877.7
28	Essex	37	2,257.7	0	0.0	1	40.2	2	2,042.0
29	Fairfax	656	527,896.4	6	7,660.0	37	29,330.8	25	18,758.5
30	Fauquier	169	16,049.0	0	0.0	6	1,102.6	2	108.5
31	Floyd	0	0.0	0	0.0	0	0.0	0	0.0
32	Fluvanna	23	273.0	1	2.5	0	0.0	0	0.0
33	Franklin	354	4,996.6	2	465.0	2	535.0	2	335.0
34	Frederick	161	9,164.1	1	150.0	3	589.5	12	2,222.0
35	Giles	9	2,110.6	0	0.0	1	1,945.0	0	0.0
36	Gloucester	8	2,878.0	0	0.0	2	638.0	0	0.0
37	Goochland	67	3,068.3	0	0.0	0	0.0	2	1,345.0
38	Grayson[1]	–	–	–	–	–	–	–	–
39	Greene	39	348.0	0	0.0	1	89.2	0	0.0
40	Greensville	21	102.3	0	0.0	1	45.0	0	0.0
41	Halifax	0	0.0	0	0.0	0	0.0	0	0.0
42	Hanover	141	20,785.2	6	506.0	3	2,275.0	3	525.0
43	Henrico	279	74,396.5	3	342.4	7	5,884.8	5	7,700.5
44	Henry	86	5,319.0	0	0.0	5	2,253.0	1	550.0
45	Highland	49	178.5	0	0.0	0	0.0	0	0.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores and Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	$ 0.0	2	$ 140.0	12	$ 1,026.0	0	$ 0.0	14	$ 848.9	124	$ 652.2	1
0	0.0	1	150.0	14	3,226.1	1	55.7	18	7,883.8	155	2,054.9	2
0	0.0	2	15.3	0	0.0	0	0.0	3	555.0	27	45.8	3
–	–	–	–	–	–	–	–	–	–	–	–	4
0	0.0	1	96.0	3	122.0	0	0.0	8	3,895.5	32	908.2	5
0	0.0	0	0.0	1	185.0	0	0.0	3	1,064.2	0	0.0	6
2	8,226.0	1	1,000.0	5	63,291.0	0	0.0	3	1,960.5	0	0.0	7
0	0.0	1	45.0	2	60.0	1	5.0	16	1,973.6	232	3,612.7	8
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	39.5	9
–	–	–	–	–	–	–	–	–	–	–	–	10
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	11
–	–	–	–	–	–	–	–	–	–	–	–	12
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	13
0	0.0	0	0.0	3	313.0	0	0.0	2	46.0	6	99.2	14
0	0.0	0	0.0	0	0.0	0	0.0	1	8.0	46	394.5	15
0	0.0	5	187.0	4	1,135.5	2	370.0	12	2,294.1	39	1,079.0	16
0	0.0	0	0.0	1	37.5	1	15.0	2	1,552.8	1	100.0	17
0	0.0	1	55.0	3	344.0	0	0.0	4	523.0	18	105.7	18
0	0.0	0	0.0	0	0.0	2	1,008.7	0	0.0	30	219.2	19
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	10	68.0	20
0	0.0	0	0.0	28	10,742.6	0	0.0	65	17,560.3	10	936.0	21
0	0.0	0	0.0	0	0.0	0	0.0	1	8.0	38	568.3	22
–	–	–	–	–	–	–	–	–	–	–	–	23
0	0.0	0	0.0	7	2,064.6	0	0.0	2	3,840.8	23	46.2	24
0	0.0	0	0.0	0	0.0	0	0.0	3	265.0	0	0.0	25
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	26
0	0.0	0	0.0	2	285.0	0	0.0	0	0.0	187	701.9	27
0	0.0	1	16.0	1	18.0	0	0.0	0	0.0	32	141.5	28
21	73,595.1	0	0.0	258	309,036.1	0	0.0	307	89,510.7	2	5.3	29
0	0.0	1	85.0	29	8,764.4	0	0.0	18	4,410.6	113	1,577.9	30
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	31
0	0.0	0	0.0	2	110.0	0	0.0	2	65.0	18	95.5	32
0	0.0	4	248.1	6	290.0	1	25.0	10	363.0	327	2,735.5	33
0	0.0	0	0.0	2	322.0	4	517.0	28	4,758.3	111	605.4	34
0	0.0	0	0.0	1	50.0	0	0.0	3	100.0	4	15.6	35
0	0.0	0	0.0	1	500.0	1	250.0	4	1,490.0	0	0.0	36
0	0.0	0	0.0	9	1,077.8	0	0.0	0	0.0	56	645.5	37
–	–	–	–	–	–	–	–	–	–	–	–	38
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	38	258.9	39
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	20	57.3	40
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	41
0	0.0	1	105.0	26	7,850.5	0	0.0	16	8,675.6	86	848.0	42
0	0.0	2	570.0	38	40,707.5	10	1,346.7	42	16,323.3	172	1,521.4	43
0	0.0	2	30.0	0	0.0	0	0.0	20	2,231.5	58	254.5	44
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	49	178.5	45

Table 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
		Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
46	Isle of Wight	14	$ 6,504.0	0	$ 0.0	0	$ 0.0	0	$ 0.0
47	James City	9	16,592.5	2	380.0	1	12,500.0	2	85.0
48	King and Queen	37	155.0	0	0.0	0	0.0	0	0.0
49	King George	8	1,532.5	1	150.0	0	0.0	0	0.0
50	King William	1	240.0	0	0.0	0	0.0	0	0.0
51	Lancaster	53	2,816.7	1	30.0	7	1,488.8	6	360.0
52	Lee	28	680.5	0	0.0	3	95.0	2	126.4
53	Loudoun[4]	48	74,312.5	1	54.8	0	0.0	10	11,516.0
54	Louisa	13	2,264.4	0	0.0	0	0.0	8	1,191.8
55	Lunenburg	2	195.0	0	0.0	0	0.0	0	0.0
56	Madison	37	507.7	4	101.0	0	0.0	1	105.0
57	Mathews	6	298.0	0	0.0	2	98.0	0	0.0
58	Mecklenburg[5]	140	5,685.3	1	182.0	1	150.0	5	2,660.0
59	Middlesex	106	631.0	0	0.0	0	0.0	0	0.0
60	Montgomery	100	8,156.1	2	206.0	3	802.3	4	246.0
61	Nelson	49	2,438.0	0	0.0	0	0.0	0	0.0
62	New Kent	34	405.1	0	0.0	0	0.0	1	60.0
63	Northampton	28	293.9	0	0.0	0	0.0	0	0.0
64	Northumberland	3	117.0	0	0.0	0	0.0	2	42.0
65	Nottoway	19	1,350.8	0	0.0	0	0.0	1	642.8
66	Orange	57	8,259.5	0	0.0	1	298.8	17	7,097.0
67	Page	210	1,450.4	1	3.0	0	0.0	0	0.0
68	Patrick	30	567.6	0	0.0	0	0.0	0	0.0
69	Pittsylvania	98	4,920.0	1	10.0	4	1,304.5	4	479.0
70	Powhatan	15	527.0	0	0.0	0	0.0	0	0.0
71	Prince Edward	24	6,649.6	0	0.0	0	0.0	2	41.0
72	Prince George	94	2,292.9	0	0.0	0	0.0	0	0.0
73	Prince William	177	81,034.8	5	993.5	0	0.0	26	20,790.0
74	Pulaski	23	3,684.8	0	0.0	1	210.0	3	360.0
75	Rappahannock	2	45.0	0	0.0	0	0.0	0	0.0
76	Richmond	–	–	–	–	–	–	–	–
77	Roanoke	139	14,774.6	0	0.0	5	3,956.8	1	49.0
78	Rockbridge	56	8,335.5	0	0.0	0	0.0	5	3,119.6
79	Rockingham	411	12,627.9	0	0.0	5	1,639.0	2	659.0
80	Russell	15	4,765.3	0	0.0	6	2,105.0	1	2,500.0
81	Scott	5	659.0	0	0.0	1	40.0	0	0.0
82	Shenandoah	247	8,351.4	0	0.0	3	684.2	2	2,032.5
83	Smyth	20	3,879.0	0	0.0	1	90.0	3	1,715.0
84	Southampton	23	1,464.5	1	15.0	0	0.0	7	1,174.7
85	Spotsylvania	417	21,319.9	0	0.0	3	784.0	1	1,209.0
86	Stafford	80	25,147.1	3	3,144.2	0	0.0	2	40.2
87	Surry	7	66,448.4	0	0.0	0	0.0	0	0.0
88	Sussex	11	911.3	0	0.0	0	0.0	3	642.5
89	Tazewell	34	7,594.4	0	0.0	6	2,555.3	8	3,488.0
90	Warren	18	4,074.4	3	265.0	3	1,060.9	2	475.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores and Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	$ 0.0	0	$ 0.0	1	$ 1,500.0	0	$ 0.0	1	$ 650.0	12	$ 4,354.0	46
0	0.0	0	0.0	1	95.0	1	25.0	2	3,507.5	0	0.0	47
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	37	155.0	48
0	0.0	0	0.0	3	1,208.0	0	0.0	2	33.0	2	141.5	49
0	0.0	0	0.0	0	0.0	0	0.0	1	240.0	0	0.0	50
0	0.0	0	0.0	2	29.5	0	0.0	4	739.0	33	169.4	51
0	0.0	0	0.0	1	20.0	2	215.0	5	179.0	15	45.1	52
0	0.0	1	145.3	22	50,143.4	1	2.8	11	12,347.4	2	102.8	53
0	0.0	1	18.0	0	0.0	2	801.0	1	203.7	1	50.0	54
0	0.0	0	0.0	1	35.0	0	0.0	1	160.0	0	0.0	55
0	0.0	0	0.0	0	0.0	0	0.0	1	90.0	31	211.7	56
0	0.0	1	50.0	1	65.0	0	0.0	1	40.0	1	45.0	57
0	0.0	1	61.6	6	905.6	0	0.0	2	154.8	124	1,571.3	58
0	0.0	1	215.0	0	0.0	0	0.0	0	0.0	105	416.0	59
0	0.0	4	802.5	8	1,279.8	2	691.5	33	3,976.4	44	151.6	60
0	0.0	0	0.0	1	2,250.0	0	0.0	1	50.0	47	138.0	61
0	0.0	0	0.0	1	64.0	2	51.0	0	0.0	30	130.1	62
0	0.0	0	0.0	1	75.0	0	0.0	2	48.0	25	170.9	63
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	75.0	64
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	18	708.0	65
0	0.0	1	21.2	0	0.0	0	0.0	4	544.0	34	298.5	66
0	0.0	1	48.0	1	30.0	0	0.0	0	0.0	207	1,369.4	67
0	0.0	0	0.0	1	40.0	0	0.0	4	361.0	25	166.6	68
0	0.0	6	71.0	0	0.0	0	0.0	9	2,460.0	74	595.5	69
0	0.0	1	99.0	0	0.0	0	0.0	0	0.0	14	428.0	70
0	0.0	0	0.0	1	158.0	0	0.0	6	6,358.4	15	92.3	71
0	0.0	0	0.0	5	1,654.4	0	0.0	0	0.0	89	638.5	72
0	0.0	4	2,318.3	17	8,174.4	7	411.8	76	47,984.5	42	362.5	73
0	0.0	0	0.0	7	864.5	0	0.0	7	2,087.0	5	163.3	74
0	0.0	0	0.0	0	0.0	2	45.0	0	0.0	0	0.0	75
–	–	–	–	–	–	–	–	–	–	–	–	76
0	0.0	0	0.0	20	9,243.1	3	593.9	6	613.7	104	318.1	77
0	0.0	0	0.0	0	0.0	0	0.0	4	4,799.1	47	416.8	78
0	0.0	5	397.0	10	2,640.3	8	66.3	18	1,018.9	363	6,207.4	79
0	0.0	1	38.0	0	0.0	0	0.0	0	0.0	7	122.3	80
0	0.0	1	250.0	2	349.0	0	0.0	0	0.0	1	20.0	81
0	0.0	1	40.0	4	1,026.6	0	0.0	1	80.0	236	4,488.1	82
0	0.0	4	112.0	1	250.0	0	0.0	5	1,591.0	6	121.0	83
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	15	274.8	84
0	0.0	8	445.7	17	1,467.5	3	113.0	118	16,541.4	267	759.3	85
0	0.0	0	0.0	15	10,463.2	1	180.8	44	10,817.8	15	500.9	86
0	0.0	0	0.0	0	0.0	7	66,448.4	0	0.0	0	0.0	87
0	0.0	1	15.0	0	0.0	0	0.0	2	10.0	5	243.8	88
1	12.2	0	0.0	6	1,081.0	3	59.8	1	31.2	9	366.9	89
0	0.0	1	140.0	5	1,192.5	0	0.0	4	941.0	0	0.0	90

Table 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
		Number	$000	Number	$000	Number	$000	Number	$000
	COUNTIES (continued)								
91	Washington	53	$ 3,649.0	1	$ 162.0	7	$ 719.9	8	$ 1,450.0
92	Westmoreland	0	0.0	0	0.0	0	0.0	0	0.0
93	Wise[6]	34	4,397.4	1	1.0	4	483.9	2	2,320.8
94	Wythe	37	1,776.8	0	0.0	2	77.0	3	325.1
95	York	23	3,442.8	5	593.7	2	459.0	1	55.0
	CITIES								
96	Alexandria	42	144,145.8	0	0.0	0	0.0	0	0.0
97	Bedford	4	510.0	0	0.0	0	0.0	1	300.0
98	Bristol	23	2,214.5	1	10.0	0	0.0	1	68.0
99	Buena Vista	0	0.0	0	0.0	0	0.0	0	0.0
100	Charlottesville	28	6,049.5	1	99.3	3	809.0	0	– 0.0
101	Chesapeake[2]	92	42,937.8	10	6,463.2	3	1,493.2	7	1,676.2
102	Clifton Forge[7]	0	0.0	0	0.0	0	0.0	0	0.0
103	Colonial Heights	55	4,641.3	0	0.0	0	0.0	0	0.0
104	Covington	10	14,140.4	0	0.0	0	0.0	4	13,456.0
105	Danville	89	9,894.2	0	0.0	3	1,301.2	5	1,667.3
106	Emporia	16	1,307.3	0	0.0	0	0.0	7	632.5
107	Fairfax	4	449.7	0	0.0	0	0.0	0	0.0
108	Falls Church	2	3.9	0	0.0	0	0.0	0	0.0
109	Franklin	1	150.0	0	0.0	0	0.0	0	0.0
110	Fredericksburg	29	2,202.0	0	0.0	0	0.0	9	1,351.9
111	Galax	10	3,047.7	0	0.0	0	0.0	9	2,260.2
112	Hampton	931	13,128.2	1	210.0	0	0.0	9	1,256.0
113	Harrisonburg	66	17,248.8	1	169.0	1	3,079.0	1	3,161.4
114	Hopewell	30	10,127.9	0	0.0	0	0.0	4	305.4
115	Lexington	1	150.0	0	0.0	0	0.0	0	0.0
116	Lynchburg	87	42,148.7	5	7,681.6	3	1,021.3	7	2,040.5
117	Manassas	31	7,977.6	1	100.0	0	0.0	2	1,323.3
118	Manassas Park	23	3,020.8	0	0.0	0	0.0	7	2,022.0
119	Martinsville	12	10,235.5	1	2,973.3	0	0.0	0	0.0
120	Newport News	772	47,059.0	5	2,849.2	3	1,400.0	19	22,556.6
121	Norfolk	204	33,093.6	4	260.7	1	96.0	8	3,006.4
122	Norton	2	5,080.7	0	0.0	0	0.0	0	0.0
123	Petersburg	8	1,487.7	1	182.7	1	115.0	2	150.0
124	Poquoson	3	462.6	1	14.0	0	0.0	0	0.0
125	Portsmouth	166	7,165.6	1	20.0	3	1,104.0	3	410.1
126	Radford	4	422.0	0	0.0	0	0.0	0	0.0
127	Richmond	69	20,140.5	1	15.0	7	1,364.3	4	5,542.6
128	Roanoke[8]	13	5,267.5	0	0.0	0	0.0	2	240.0
129	Salem[7]	52	5,194.0	0	0.0	1	291.0	0	0.0
130	South Boston	3	163.9	0	0.0	0	0.0	0	0.0
131	Staunton	42	2,984.6	0	0.0	0	0.0	1	62.0
132	Suffolk	179	7,571.6	0	0.0	0	0.0	0	0.0
133	Virginia Beach	574	78,208.1	8	1,847.5	12	13,596.2	9	5,374.0
134	Waynesboro	46	3,308.5	0	0.0	1	67.0	0	0.0
135	Williamsburg	11	56.5	1	5.0	2	7.0	0	0.0
136	Winchester	71	17,739.5	0	0.0	5	1,890.0	2	3,700.0

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores and Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	$ 0.0	5	$ 174.0	5	$ 100.8	2	$ 323.0	12	$ 594.8	13	$ 124.4	91
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	92
0	0.0	5	170.5	4	132.0	0	0.0	5	1,246.9	13	42.3	93
0	0.0	2	124.0	2	633.0	2	45.8	4	327.5	22	244.4	94
0	0.0	0	0.0	0	0.0	2	150.7	11	2,093.7	2	90.6	95
1	2,000.0	0	0.0	11	33,209.3	0	0.0	30	108,936.5	0	0.0	96
0	0.0	0	0.0	3	210.0	0	0.0	0	0.0	0	0.0	97
0	0.0	0	0.0	1	210.0	0	0.0	8	1,919.0	12	7.5	98
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	99
1	1,567.8	1	260.0	3	1,372.0	0	0.0	5	1,858.1	14	83.3	100
0	0.0	1	190.0	22	10,669.5	0	0.0	29	20,735.7	20	1,710.1	101
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	102
0	0.0	0	0.0	2	390.0	1	170.0	4	4,014.5	48	66.8	103
0	0.0	0	0.0	0	0.0	1	293.7	4	388.7	1	2.0	104
0	0.0	0	0.0	11	4,010.2	0	0.0	5	2,693.3	65	222.2	105
0	0.0	0	0.0	6	311.8	0	0.0	1	325.0	2	38.0	106
0	0.0	0	0.0	3	430.0	0	0.0	0	0.0	1	19.7	107
0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	2	3.9	108
0	0.0	0	0.0	1	150.0	0	0.0	0	0.0	0	0.0	109
0	0.0	0	0.0	2	490.0	0	0.0	1	235.0	17	125.1	110
0	0.0	0	0.0	0	0.0	0	0.0	1	787.5	0	0.0	111
0	0.0	0	0.0	4	3,885.0	0	0.0	17	5,140.1	900	2,637.1	112
0	0.0	2	292.0	7	3,218.7	2	136.0	17	5,506.8	35	1,685.9	113
0	0.0	0	0.0	1	150.0	1	9,595.0	1	62.0	23	15.5	114
0	0.0	0	0.0	1	150.0	0	0.0	0	0.0	0	0.0	115
0	0.0	2	114.0	9	23,141.0	0	0.0	12	7,981.0	49	169.3	116
0	0.0	0	0.0	3	985.0	0	0.0	12	4,994.7	13	574.6	117
1	64.0	0	0.0	2	500.0	0	0.0	1	400.0	12	34.8	118
0	0.0	1	9.0	4	3,093.2	0	0.0	5	4,150.0	1	10.0	119
1	60.0	7	608.5	23	11,265.1	0	0.0	32	4,437.2	682	3,882.4	120
0	0.0	1	18.5	9	18,012.7	0	0.0	15	10,249.7	166	1,449.7	121
0	0.0	0	0.0	0	0.0	0	0.0	2	5,080.7	0	0.0	122
0	0.0	0	0.0	1	47.0	1	6.0	2	987.0	0	0.0	123
0	0.0	0	0.0	0	0.0	1	163.6	0	0.0	1	285.0	124
0	0.0	2	615.0	5	1,028.6	1	322.6	11	2,902.2	140	763.1	125
0	0.0	0	0.0	3	300.0	0	0.0	1	122.0	0	0.0	126
1	3,400.0	2	446.3	9	7,227.5	0	0.0	9	1,904.1	36	240.6	127
0	0.0	0	0.0	0	0.0	0	0.0	1	136.0	10	4,891.5	128
0	0.0	1	179.0	10	1,040.2	0	0.0	9	3,194.0	31	489.8	129
0	0.0	0	0.0	0	0.0	0	0.0	3	163.9	0	0.0	130
0	0.0	1	50.0	3	205.0	0	0.0	4	2,585.6	33	82.0	131
0	0.0	0	0.0	1	2,468.9	0	0.0	25	4,501.6	153	601.0	132
0	0.0	4	1,800.0	29	28,062.6	7	452.2	45	25,489.3	460	1,586.4	133
0	0.0	1	130.0	6	1,709.8	0	0.0	1	1,057.0	37	344.7	134
0	0.0	0	0.0	0	0.0	0	0.0	1	28.0	7	16.5	135
0	0.0	0	0.0	3	970.0	0	0.0	22	10,834.3	39	345.3	136

Table 4. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1989

Line	Jurisdiction	Total Nonresidential Buildings Authorized		Amusement & Recreational Buildings		Church, Hospital & School Buildings		Industrial Buildings	
		Number	$000	Number	$000	Number	$000	Number	$000
	PLANNING DISTRICTS								
137	LENOWISCO	69	$ 10,817.6	1	$ 1.0	8	$ 618.9	4	$ 2,447.2
138	Cumberland Plateau	62	13,939.2	0	0.0	13	4,735.3	10	7,034.2
139	Mount Rogers	183	21,320.6	2	172.0	19	1,906.9	29	10,524.2
140	New River Valley	136	14,373.5	2	206.0	5	2,957.3	7	606.0
141	Fifth	249	41,343.5	0	0.0	7	5,547.8	9	13,796.0
142	Central Shenandoah	930	50,967.7	3	201.0	9	4,900.9	11	7,252.0
143	Lord Fairfax	751	43,441.5	6	477.5	18	6,250.6	18	8,429.5
144	Northern Virginia	995	914,322.2	13	8,808.3	38	30,334.0	70	54,409.7
145	Rappahannock-Rapidan	303	33,820.8	8	1,201.0	8	1,809.4	21	8,810.5
146	Thomas Jefferson	356	43,069.9	3	3,001.8	17	16,289.6	9	1,226.8
147	Central Virginia	210	66,987.7	7	7,737.4	4	1,372.0	14	14,926.5
148	West Piedmont	669	35,932.9	4	3,448.3	14	5,393.7	12	3,031.3
149	Southside	144	6,960.2	1	182.0	1	150.0	6	3,771.0
150	Piedmont	108	9,210.9	1	80.0	1	20.0	4	863.8
151	Richmond Regional	763	158,693.7	15	1,855.8	26	12,217.1	24	20,392.0
152	RADCO	540	52,045.7	4	3,294.2	3	784.0	13	2,740.1
153	Northern Neck	56	2,933.7	1	30.0	7	1,488.8	8	402.0
154	Middle Peninsula	195	6,459.7	0	0.0	5	776.2	2	2,042.0
155	Crater	433	89,321.7	1	182.7	3	298.0	17	2,608.1
156	Southeastern Virginia	1,253	177,095.3	24	8,606.3	19	16,289.3	34	11,641.3
157	Peninsula	1,749	80,741.6	15	4,051.9	8	14,366.0	31	23,952.6
158	Accomack-Northampton	184	3,411.0	0	0.0	3	440.0	1	10.0
	METROPOLITAN STATISTICAL AREAS								
159	Bristol (Va. portion)	81	6,522.5	2	172.0	8	759.9	9	1,518.0
160	Charlottesville	294	38,367.5	3	3,001.8	17	16,289.6	1	35.0
161	Danville	187	14,814.2	1	10.0	7	2,605.7	9	2,146.3
162	Lynchburg	202	65,228.5	7	7,737.4	4	1,372.0	13	14,626.5
163	Norfolk	2,972	252,596.4	38	12,643.2	29	31,293.3	58	34,419.2
164	Northern Virginia	1,075	939,469.2	16	11,952.5	38	30,334.0	72	54,449.9
165	Richmond	1,141	179,246.1	16	2,038.5	28	12,470.1	31	21,725.0
166	Roanoke	204	25,236.0	0	0.0	6	4,247.8	3	289.0
167	TOTAL METROPOLITAN	6,156	1,521,480.3	83	37,555.4	137	99,372.3	196	129,209.0
168	TOTAL NONMETROPOLITAN	4,182	355,730.0	28	5,981.8	99	29,573.3	158	71,707.9
169	TOTAL COUNTIES	6,533	1,306,072.9	68	20,636.8	187	101,311.6	231	128,354.5
170	TOTAL CITIES	3,805	571,137.4	43	22,900.3	49	27,634.1	123	72,562.4
171	VIRGINIA	10,338	1,877,210.3	111	43,537.1	236	128,945.6	354	200,916.9

[1] Did not report.
[2] Reported 10 months.
[3] Bowling Green Town did not report. The balance of Caroline County reported 12 months.
[4] Reported 9 months.
[5] Chase City Town did not report. The balance of Mecklenburg County reported 12 months.
[6] St. Paul Town reported 8 months. The balance of Wise County reported 12 months.
[7] Reported 11 months.
[8] Reported 2 months.

Parking Garages		Service Stations & Repair Garages		Office, Bank & Professional Buildings		Public Works & Utilities Buildings		Stores and Mercantile Buildings		Other Nonresidential Buildings		
Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Number	$000	Line
0	$ 0.0	6	$ 420.5	7	$ 501.0	2	$ 215.0	12	$ 6,506.5	29	$ 107.4	137
1	12.2	1	38.0	9	1,394.0	3	59.8	3	77.2	22	588.4	138
0	0.0	12	465.0	12	1,537.8	4	368.8	34	5,742.8	71	603.0	139
0	0.0	4	802.5	19	2,494.3	2	691.5	44	6,285.3	53	330.5	140
0	0.0	3	194.3	30	10,283.3	4	887.6	23	4,887.3	173	5,747.1	141
0	0.0	10	914.0	29	7,983.8	11	207.3	60	16,941.1	797	12,567.6	142
0	0.0	3	228.0	15	3,541.0	4	517.0	56	16,621.5	631	7,376.4	143
25	83,885.1	6	3,463.5	321	465,769.2	8	414.6	440	266,134.2	74	1,103.5	144
0	0.0	2	106.2	36	10,829.0	2	45.0	25	8,885.4	201	2,134.4	145
1	1,567.8	3	428.0	20	6,958.1	3	856.7	27	10,060.6	273	2,680.6	146
0	0.0	8	397.0	20	24,793.5	2	370.0	35	15,234.8	120	2,156.5	147
0	0.0	13	358.1	22	7,433.4	1	25.0	53	12,258.8	550	3,984.3	148
0	0.0	1	61.6	6	905.6	0	0.0	5	318.7	124	1,571.3	149
0	0.0	0	0.0	2	193.0	0	0.0	11	6,791.4	89	1,262.7	150
1	3,400.0	6	1,220.3	111	67,769.8	14	2,406.3	132	44,463.4	434	4,968.9	151
0	0.0	8	445.7	38	13,666.3	5	308.8	167	29,180.0	302	1,626.7	152
0	0.0	0	0.0	2	29.5	0	0.0	4	739.0	34	244.4	153
0	0.0	3	281.0	3	583.0	1	250.0	6	1,770.0	175	757.5	154
0	0.0	1	15.0	17	2,838.2	10	76,219.4	10	5,398.5	374	1,761.8	155
0	0.0	8	2,623.5	68	61,892.3	8	774.9	126	64,528.5	966	10,739.1	156
1	60.0	7	608.5	28	15,245.1	4	339.3	63	15,206.6	1,592	6,911.6	157
0	0.0	2	140.0	13	1,101.0	0	0.0	16	896.9	149	823.1	158
0	0.0	6	424.0	8	659.8	2	323.0	20	2,513.8	26	151.9	159
1	1,567.8	2	410.0	19	4,708.1	1	55.7	25	9,806.9	225	2,492.6	160
0	0.0	6	71.0	11	4,010.2	0	0.0	14	5,153.3	139	817.7	161
0	0.0	8	397.0	16	24,398.5	2	370.0	32	14,170.6	120	2,156.5	162
1	60.0	15	3,232.0	95	75,987.5	13	1,364.2	192	80,575.0	2,531	13,021.9	163
25	83;885.1	6	3,463.5	336	476,232.4	9	595.4	484	276,952.0	89	1,604.4	164
1	3,400.0	6	1,220.3	122	70,296.2	17	12,177.3	139	49,526.9	781	6,391.7	165
0	0.0	1	179.0	30	10,283.3	3	593.9	16	3,943.7	145	5,699.4	166
28	88,912.9	50	9,396.8	637	666,576.0	47	15,479.6	922	442,642.2	4,056	32,336.1	167
1	12.2	57	3,813.9	191	41,166.3	41	69,477.5	430	96,286.2	3,177	37,710.9	168
24	81,833.3	81	8,498.4	630	548,829.1	73	73,818.0	1,016	295,128.1	4,223	47,663.2	169
5	7,091.8	26	4,712.3	198	158,913.2	15	11,139.2	336	243,800.4	3,010	22,383.8	170
29	88,925.1	107	13,210.7	828	707,742.3	88	84,957.1	1,352	538,928.4	7,233	70,046.9	171

Table 5.
Residential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES										
Accomack	489	334	263	481	350	316	273	239	165	345
Albemarle	1,203	590	595	748	728	722	1,084	495	640	565
Alleghany	39	108	103	141	119	92	105	72	NA	127
Amelia	63	98	60	95	96	73	81	46	58	55
Amherst	145	131	129	308	301	296	246	176	241	260
Apomattox	42	153	158	152	165	147	142	131	116	136
Arlington	2,506	2,218	910	1,341	878	292	1,055	396	586	568
Augusta	604	474	448	701	571	644	495	541	372	435
Bath	24	20	25	75	39	45	41	51	42	39
Bedford	439	955	1,071	530	NA	297	427	172	260	442
Bland	30	81	73	77	90	71	60	69	80	41
Botetourt	200	259	257	99	180	171	127	64	114	209
Brunswick	40	258	222	184	153	168	148	175	217	170
Buchanan	39	34	39	257	280	303	261	334	412	397
Buckingham	40	220	42	191	140	140	164	181	123	121
Campbell	185	294	244	576	904	632	550	448	645	643
Caroline	215	243	213	221	198	186	191	203	183	285
Carroll	115	122	105	363	327	320	255	235	282	348
Charles City	44	41	40	63	40	10	28	38	21	68
Charlotte	59	47	61	137	127	134	31	21	24	35
Chesterfield	3,362	3,397	3,938	4,298	4,346	3,623	3,599	1,878	2,273	3,354
Clarke	82	127	126	117	60	50	57	34	45	38
Craig	37	46	34	76	83	51	NA	NA	NA	NA
Culpeper	447	862	453	438	256	146	171	64	117	182
Cumberland	33	60	30	74	43	32	30	26	26	43
Dickenson	29	51	27	55	203	204	252	237	237	301
Dinwiddie	132	253	139	227	182	158	193	140	159	136
Essex	64	95	37	95	67	63	102	60	49	75
Fairfax	7,904	11,138	13,247	11,170	11,150	13,108	11,786	5,118	5,737	6,788
Fauquier	627	851	356	966	836	616	547	294	268	370
Floyd	67	179	160	121	60	51	60	34	47	56
Fluvanna	270	300	252	250	171	133	137	71	76	104
Franklin	322	406	387	643	657	819	571	445	197	233
Frederick	902	758	761	592	693	487	357	189	216	341
Giles	25	151	154	148	111	142	177	160	131	158
Gloucester	199	317	448	909	911	927	888	420	394	406
Goochland	194	209	196	231	205	164	149	127	104	103
Grayson	82	259	189	215	188	202	154	146	175	289
Greene	160	167	143	148	135	130	112	107	118	150
Greensville	26	74	92	64	83	88	87	63	74	99
Halifax	80	321	202	139	20	345	293	222	261	273
Hanover	995	1,275	1,115	1,471	1,079	744	524	322	261	460
Henrico	2,324	4,273	2,653	3,199	2,977	3,720	2,827	969	1,471	1,931
Henry	222	216	239	762	576	671	565	388	398	529
Highland	16	28	16	19	34	33	57	73	31	32
Isle of Wight	251	572	302	501	NA	NA	402	250	204	277
James City	709	1,000	1,090	1,347	929	706	718	519	391	303
King and Queen	35	32	NA	82	80	97	79	60	55	64
King George	202	218	253	283	249	199	102	148	127	113
King William	211	130	118	130	75	78	74	46	41	88

Table 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)										
Lancaster	254	198	181	141	150	246	204	101	89	129
Lee	38	73	81	259	309	327	315	254	168	366
Loudoun	1,442	2,737	2,089	2,218	1,884	1,373	1,175	711	390	343
Louisa	351	315	268	381	354	206	228	219	220	214
Lunenburg	54	76	18	78	91	NA	NA	98	72	96
Madison	136	129	106	94	69	73	71	52	52	53
Mathews	114	114	117	141	96	112	90	59	75	80
Mecklenburg	159	117	118	398	355	307	301	263	362	260
Middlesex	151	172	149	149	NA	132	153	105	97	102
Montgomery	784	748	884	578	437	359	382	470	637	631
Nelson	175	189	174	227	257	227	250	216	172	228
New Kent	158	185	209	213	135	152	126	70	74	98
Northampton	116	104	54	127	92	170	105	62	53	62
Northumberland	312	216	218	203	158	NA	138	120	133	143
Nottoway	39	54	39	102	86	80	76	111	97	155
Orange	353	300	313	252	271	223	214	122	137	164
Page	213	193	267	221	174	138	223	112	145	156
Patrick	62	227	252	235	213	291	204	158	230	212
Pittsylvania	263	301	325	907	771	833	884	693	666	800
Powhatan	256	237	197	228	147	131	110	63	76	102
Prince Edward	105	142	54	135	139	125	144	90	161	94
Prince George	232	180	192	216	203	215	198	146	132	260
Prince William	2,886	4,328	5,085	5,305	2,826	2,967	2,569	1,564	1,472	1,435
Pulaski	159	149	124	326	360	292	242	292	269	393
Rappahannock	76	81	88	68	54	29	56	55	37	53
Richmond	43	55	89	57	52	50	61	33	46	51
Roanoke	625	482	618	786	786	712	645	294	423	434
Rockbridge	144	150	94	199	179	237	169	125	63	83
Rockingham	457	451	575	701	611	471	417	456	478	620
Russell	54	56	69	374	339	339	349	356	321	443
Scott	48	104	76	228	313	260	263	223	235	293
Shenandoah	462	557	519	412	326	261	322	189	470	266
Smyth	133	95	98	286	273	268	233	169	392	292
Southampton	63	218	112	169	205	123	95	87	151	95
Spotsylvania	1,742	1,529	1,838	1,487	1,265	861	639	348	338	410
Stafford	1,684	2,110	1,133	951	832	164	189	536	358	479
Surry	95	80	104	118	106	117	113	76	70	116
Sussex	19	144	108	91	99	94	119	47	122	79
Tazewell	118	128	105	514	528	568	607	579	585	659
Warren	424	422	327	280	192	171	221	65	110	164
Washington	223	296	287	600	540	481	408	361	378	531
Westmoreland	238	182	209	143	76	122	171	147	40	52
Wise	72	260	97	472	513	519	398	237	564	424
Wythe	122	329	339	311	448	274	273	215	286	287
York	551	696	611	1,050	852	340	274	228	204	255

Table 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES										
Alexandria	2,013	499	1,495	178	53	368	333	231	311	530
Bedford	15	25	31	25	62	22	27	13	23	26
Bristol	45	39	50	78	60	212	42	18	51	229
Buena Vista	26	17	1	11	51	3	4	63	1	72
Charlottesville	154	151	118	89	114	162	172	55	68	231
Chesapeake	2,108	2,083	2,860	3,026	2,954	2,351	1,982	736	421	473
Clifton Forge	2	3	2	1	NA	NA	1	2	NA	NA
Colonial Heights	49	66	80	96	66	93	58	70	49	96
Covington	4	2	8	3	20	17	8	1	1	5
Danville	36	50	40	46	85	87	66	22	213	129
Emporia	24	16	7	6	51	5	3	4	12	72
Fairfax	4	67	153	45	69	44	16	19	7	13
Falls Church	7	16	3	12	10	1	3	2	8	28
Franklin	81	34	59	53	58	17	32	8	80	13
Fredericksburg	7	122	28	315	165	121	39	9	28	3
Galax	7	59	18	62	41	28	67	122	51	59
Hampton	1,012	1,435	921	1,982	2,068	1,089	844	371	295	391
Harrisonburg	777	537	422	528	319	286	197	71	105	340
Hopewell	56	79	51	258	128	75	33	122	31	126
Lexington	9	17	NA	4	13	1	10	3	5	8
Lynchburg	223	195	283	247	366	292	290	230	131	489
Manassas	293	718	747	1,439	521	137	62	178	83	214
Manassas Park	0	NA	55	60	98	57	16	37	NA	9
Martinsville	45	54	52	52	30	28	26	7	74	65
Newport News	1,130	1,555	1,677	2,661	2,908	3,210	1,524	783	456	477
Norfolk	1,223	1,082	1,786	1,644	1,633	1,413	1,147	899	587	683
Norton	2	18	0	28	35	74	22	39	37	49
Petersburg	54	39	152	229	38	90	33	88	135	199
Poquoson	38	63	57	105	300	125	147	91	76	87
Portsmouth	301	247	623	973	456	503	410	279	241	203
Radford	214	207	190	176	128	294	89	89	84	12
Richmond	262	283	697	610	355	554	348	324	389	1,002
Roanoke	201	219	437	406	290	139	152	136	53	506
Salem	69	82	90	127	93	152	131	42	54	87
South Boston	10	13	13	8	62	22	27	83	6	86
Staunton	77	134	82	79	136	45	53	21	28	130
Suffolk	350	474	548	604	434	696	494	293	79	300
Virginia Beach	2,937	4,538	3,461	9,339	8,292	7,661	8,635	5,023	3,243	3,002
Waynesboro	102	83	64	87	54	55	136	37	54	28
Williamsburg	40	41	66	84	109	94	66	82	9	19
Winchester	202	281	190	327	209	88	130	34	79	83
PLANNING DISTRICTS										
LENOWISCO	160	455	254	987	1,170	1,180	998	753	1,004	1,132
Cumberland Plateau	240	269	240	1,200	1,350	1,414	1,469	1,506	1,555	1,800
Mount Rogers	757	1,280	1,159	1,992	1,967	1,856	1,492	1,335	1,695	2,076
New River Valley	1,249	1,434	1,512	1,349	1,096	1,138	950	1,045	1,168	1,250
Fifth	1,177	1,201	1,549	1,639	1,571	1,334	1,169	611	645	1,368

Table 5. (continued)
Residential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
PLANNING DISTRICTS (continued)										
Central Shenandoah	2,236	1,911	1,727	2,404	2,007	1,820	1,579	1,441	1,179	1,787
Lord Fairfax	2,285	2,338	2,190	1,949	1,654	1,195	1,310	623	1,065	1,048
Northern Virginia	17,055	21,721	23,784	21,768	17,489	18,347	17,015	8,256	8,594	9,928
Rappahannock-Rapidan	1,639	2,223	1,316	1,818	1,486	1,087	1,059	587	611	822
Thomas Jefferson	2,313	1,712	1,550	1,843	1,759	1,580	1,983	1,163	1,294	1,492
Central Virginia	1,049	1,753	1,916	1,838	1,798	1,686	1,682	1,170	1,416	1,996
West Piedmont	950	1,254	1,295	2,645	2,332	2,729	2,316	1,713	1,778	1,968
Southside	289	709	555	729	590	842	769	743	846	789
Piedmont	393	697	304	812	722	584	526	573	561	599
Richmond Regional	7,595	9,900	9,045	10,313	9,284	9,098	7,711	3,791	4,669	7,118
RADCO	3,850	4,222	3,465	3,257	2,709	1,531	1,160	1,244	1,034	1,290
Northern Neck	847	651	697	544	436	418	574	401	308	375
Middle Peninsula	774	860	869	1,506	1,229	1,409	1,386	750	711	815
Crater	687	931	925	1,305	956	935	837	756	784	1,183
Southeastern Virginia	7,314	9,248	9,751	16,309	14,032	12,764	13,197	7,575	5,006	5,046
Peninsula	3,480	4,790	4,422	7,229	7,166	5,564	3,573	2,074	1,431	1,532
Accomack-Northampton	605	438	317	608	442	486	378	301	218	407
METROPOLITAN STATISTICAL AREAS										
Bristol (Va. portion)	316	439	413	906	913	953	713	602	664	1,053
Charlottesville	1,787	1,208	1,108	1,235	1,148	1,147	1,505	728	902	1,050
Danville	299	351	365	953	856	920	950	715	879	929
Lynchburg	553	620	656	1,131	1,571	1,220	1,086	854	1,017	1,392
Norfolk	10,598	13,531	14,148	23,724	21,846	19,115	17,129	9,724	6,396	6,599
Northern Virginia	18,739	23,831	24,917	22,719	18,321	18,511	17,204	8,792	8,952	10,407
Richmond	8,118	10,517	9,659	11,339	9,901	9,729	8,226	4,357	5,175	7,935
Roanoke	1,095	1,042	1,402	1,418	1,349	1,174	1,055	536	644	1,236
TOTAL METROPOLITAN	41,505	51,539	52,668	63,425	55,905	52,769	47,868	26,308	24,629	30,601
TOTAL NONMETROPOLITAN	15,439	18,458	16,174	20,619	17,340	16,228	15,265	12,103	12,943	15,220
TOTAL COUNTIES	42,735	54,354	51,225	57,941	50,311	48,286	45,258	27,674	29,914	35,247
TOTAL CITIES	14,209	15,643	17,617	26,103	22,934	20,711	17,875	10,737	7,658	10,574
VIRGINIA	56,944	69,997	68,842	84,044	73,245	68,997	63,133	38,411	37,572	45,821

NA = Data not available.

Table 6.
Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES										
Accomack	156	87	71	54	50	49	43	58	77	46
Albemarle	204	184	188	192	200	229	203	180	166	162
Alleghany–	35	37	NA	41	25	37	34	33	NA	32
Amelia	NA	11	5	4	6	23	18	30	15	39
Amherst	47	45	43	47	50	45	31	31	63	14
Appomattox	4	21	11	0	34	12	28	22	19	17
Arlington	12	17	16	23	18	27	4	8	7	8
Augusta	257	299	247	266	218	196	225	228	240	227
Bath	2	15	26	27	9	3	39	56	NA	50
Bedford	NA	NA	0	NA	0	46	72	81	132	175
Bland	2	4	41	3	2	7	1	NA	2	1
Botetourt	NA	75	43	0	33	40	53	60	45	66
Brunswick	1	56	98	43	67	51	42	27	31	46
Buchanan	12	23	25	32	28	42	44	46	31	37
Buckingham	48	50	26	0	4	35	18	31	13	26
Campbell	68	122	109	92	99	97	125	92	46	64
Caroline	6	4	2	19	19	26	24	42	23	55
Carroll	38	68	105	115	100	52	62	45	68	82
Charles City	32	33	39	47	37	19	22	NA	10	NA
Charlotte	11	21	21	19	15	16	17	17	20	39
Chesterfield	126	314	193	195	144	7	98	84	92	92
Clarke	44	30	44	24	23	19	5	4	2	8
Craig	NA	NA	NA	1	13	4	NA	NA	NA	NA
Culpeper	38	42	25	95	105	106	105	69	104	99
Cumberland	4	17	11	10	11	24	26	27	16	21
Dickenson	1	6	27	4	NA	4	28	22	16	19
Dinwiddie	191	155	101	53	26	57	25	28	9	5
Essex	37	47	24	43	36	37	35	40	32	33
Fairfax	656	775	609	815	601	584	305	250	205	641
Fauquier	169	225	29	185	100	154	122	150	121	119
Floyd	0	16	32	6	21	7	6	8	11	21
Fluvanna	23	25	6	5	20	25	20	31	23	16
Franklin	354	393	320	326	279	198	133	172	136	136
Frederick	161	150	213	119	146	132	133	107	110	138
Giles	9	46	27	26	8	16	17	12	5	4
Gloucester	8	41	19	22	19	41	24	34	20	28
Goochland	67	61	87	60	71	50	39	49	53	41
Grayson	NA	NA	28	2	10	47	44	60	28	36
Greene	39	54	47	49	54	57	29	33	48	59
Greensville	21	0	3	8	3	6	9	NA	3	15
Halifax	0	0	0	55	NA	8	5	NA	5	5
Hanover	141	109	154	77	114	110	88	81	79	89
Henrico	279	351	367	309	330	314	332	300	302	300
Henry	86	82	70	90	85	75	64	56	59	73
Highland	49	38	32	2	46	46	59	67	48	73
Isle of Wight	14	30	NA	0	NA	NA	65	89	44	57
James City	9	14	18	19	36	36	168	100	109	119
King and Queen	37	11	NA	25	24	24	40	22	3	8
King George	8	8	2	1	1	11	17	19	43	26
King William	1	5	3	0	1	1	NA	NA	1	NA

Table 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
COUNTIES (continued)										
Lancaster	53	75	88	84	43	57	58	74	71	62
Lee	28	27	19	23	15	16	11	13	13	19
Loudoun	48	49	NA	0	36	55	92	84	87	86
Louisa	13	22	9	13	15	12	7	19	46	33
Lunenburg	2	6	4	7	NA	NA	NA	21	35	27
Madison	37	42	57	28	29	28	18	26	20	23
Mathews	6	3	3	4	1	74	53	37	34	31
Mecklenburg	140	126	79	80	49	49	61	71	30	54
Middlesex	106	55	69	88	NA	120	81	48	69	66
Montgomery	100	105	83	76	74	49	43	54	86	59
Nelson	49	72	61	52	31	41	52	71	41	51
New Kent	34	33	34	44	46	31	31	30	6	12
Northampton	28	30	15	5	78	10	15	4	11	7
Northumberland	3	4	3	3	2	NA	51	17	16	16
Nottoway	19	20	24	12	12	9	18	1	5	9
Orange	57	51	34	37	16	18	19	18	18	18
Page	210	186	180	221	146	133	131	136	147	126
Patrick	30	33	43	9	10	15	18	7	11	17
Pittsylvania	98	171	235	213	228	249	193	168	163	140
Powhatan	15	11	9	5	16	10	3	1	10	13
Prince Edward	24	25	15	15	15	22	18	10	6	9
Prince George	94	64	26	60	99	97	66	8	72	56
Prince William	177	182	160	194	194	120	84	78	46	94
Pulaski	23	19	26	15	17	15	12	44	12	10
Rappahannock	2	0	0	6	2	31	41	28	41	30
Richmond	NA	NA	NA	0	NA	2	2	4	8	1
Roanoke	139	108	136	135	133	130	122	49	129	115
Rockbridge	56	66	50	60	46	52	55	49	59	55
Rockingham	411	439	497	564	456	384	410	482	500	902
Russell	15	1	4	3	3	6	7	5	3	7
Scott	5	10	6	6	11	11	10	8	11	5
Shenandoah	247	222	155	165	148	88	122	114	135	125
Smyth	20	24	29	27	18	13	10	7	17	20
Southampton	23	130	185	15	140	112	78	106	82	79
Spotsylvania	417	391	283	311	256	256	140	65	106	107
Stafford	80	69	64	14	38	40	17	24	81	77
Surry	7	5	11	9	3	5	NA	5	1	4
Sussex	11	9	10	18	5	5	16	8	43	37
Tazewell	34	35	118	111	128	72	82	90	62	62
Warren	18	NA	106	91	83	32	41	9	32	22
Washington	53	61	66	58	52	46	64	32	45	56
Westmoreland	0	0	0	1	NA	NA	11	NA	NA	NA
Wise	34	38	37	29	31	46	56	61	45	29
Wythe	37	67	57	39	45	70	51	42	51	54
York	23	60	124	98	54	83	75	85	91	90

Table 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
CITIES										
Alexandria	42	32	23	23	7	13	49	54	42	31
Bedford	4	1	3	46	8	7	6	8	1	4
Bristol	23	25	33	28	52	41	20	29	27	38
Buena Vista	0	4	NA	27	2	2	33	5	2	1
Charlottesville	28	30	41	49	41	39	51	48	31	35
Chesapeake	92	94	113	136	102	101	99	304	330	218
Clifton Forge	0	0	3	7	NA	NA	2	1	NA	NA
Colonial Heights	55	71	57	56	42	58	50	43	6	12
Covington	10	11	3	6	6	7	3	NA	5	21
Danville	89	88	68	82	53	59	59	53	10	13
Emporia	16	24	13	14	18	14	20	10	25	19
Fairfax	4	19	43	17	45	15	27	3	8	27
Falls Church	2	1	5	6	10	15	1	4	2	5
Franklin	1	37	11	31	12	10	3	12	5	6
Fredericksburg	29	39	29	37	27	27	18	10	12	4
Galax	10	5	4	18	6	7	16	5	5	7
Hampton	931	1,225	880	1,107	996	866	756	648	723	675
Harrisonburg	66	72	68	62	55	57	41	25	41	35
Hopewell	30	23	9	16	12	15	9	9	19	23
Lexington	1	1	NA	1	1	NA	NA	4	8	8
Lynchburg	87	83	100	88	75	64	51	53	53	119
Manassas	31	53	47	42	27	13	4	34	20	11
Manassas Park	23	34	64	62	26	3	3	3	3	NA
Martinsville	12	9	7	6	6	11	4	4	6	7
Newport News	772	731	682	393	373	291	263	181	190	134
Norfolk	204	264	198	200	218	252	383	446	171	237
Norton	2	4	3	3	3	NA	1	NA	5	6
Petersburg	8	11	27	32	31	45	33	15	34	37
Poquoson	3	4	8	6	2	7	1	29	19	31
Portsmouth	166	205	181	222	266	290	128	188	190	210
Radford	4	1	7	5	NA	4	2	9	8	2
Richmond	69	83	76	102	139	135	100	159	180	158
Roanoke	13	91	134	135	157	101	58	69	86	103
Salem	52	39	53	48	54	56	35	40	36	37
South Boston	3	5	3	2	3	4	2	2	4	NA
Staunton	42	11	27	32	22	35	34	24	7	11
Suffolk	179	212	261	62	206	296	201	149	201	248
Virginia Beach	574	713	688	691	656	775	636	512	357	357
Waynesboro	46	65	41	37	39	58	50	26	29	31
Williamsburg	11	11	10	13	15	7	7	16	10	14
Winchester	71	56	59	50	71	50	57	43	13	12
PLANNING DISTRICTS										
LENOWISCO	69	79	65	61	60	73	78	82	74	59
Cumberland Plateau	62	65	174	150	159	124	161	163	112	125
Mount Rogers	183	254	363	290	285	283	268	220	243	294
New River Valley	136	187	175	128	120	91	80	127	122	96
Fifth	249	361	372	373	421	375	307	252	301	374

Table 6. (continued)
Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980
PLANNING DISTRICTS (continued)										
Central Shenandoah	930	1,010	988	1,078	894	833	946	966	934	1,393
Lord Fairfax	751	644	757	670	617	454	489	413	439	431
Northern Virginia	995	1,162	967	1,182	964	845	569	518	420	903
Rappahannock-Rapidan	303	360	145	351	252	337	305	291	304	289
Thomas Jefferson	356	387	352	360	361	403	362	382	355	356
Central Virginia	210	272	266	273	266	271	313	287	314	393
West Piedmont	669	776	743	726	661	607	471	460	385	386
Southside	144	187	180	180	119	112	110	100	70	105
Piedmont	108	150	106	67	63	129	115	137	110	170
Richmond Regional	763	995	959	839	897	676	713	704	732	705
RADCO	540	511	380	382	341	360	216	160	265	269
Northern Neck	56	79	91	88	45	59	122	95	95	79
Middle Peninsula	195	162	118	182	81	297	233	181	159	166
Crater	433	362	257	266	239	302	228	126	212	208
Southeastern Virginia	1,253	1,685	1,637	1,357	1,600	1,836	1,593	1,806	1,380	1,412
Peninsula	1,749	2,045	1,722	1,636	1,476	1,290	1,270	1,059	1,142	1,063
Accomack-Northampton	184	117	86	59	128	59	58	62	88	53
METROPOLITAN STATISTICAL AREAS										
Bristol (Va. portion)	81	96	105	92	115	98	94	69	83	99
Charlottesville	294	293	282	295	315	350	303	292	268	272
Danville	187	259	303	295	281	308	252	221	173	153
Lynchburg	202	250	252	227	224	206	207	176	162	197
Norfolk	2,972	3,574	3,182	2,969	2,943	3,045	2,741	2,692	2,411	2,361
Northern Virginia	1,075	1,231	1,031	1,196	1,002	885	586	542	501	980
Richmond	1,141	1,319	1,179	1,056	1,107	948	896	807	872	838
Roanoke	204	313	366	318	377	327	268	218	296	321
TOTAL METROPOLITAN	6,156	7,335	6,700	6,448	6,364	6,167	5,347	5,017	4,766	5,221
TOTAL NONMETROPOLITAN	4,182	4,515	4,203	4,250	3,685	3,649	3,660	3,574	3,490	4,108
TOTAL COUNTIES	6,533	7,363	6,821	6,698	6,165	5,966	5,691	5,314	5,332	6,382
TOTAL CITIES	3,805	4,487	4,082	4,000	3,884	3,850	3,316	3,277	2,924	2,947
VIRGINIA	10,338	11,850	10,903	10,698	10,049	9,816	9,007	8,591	8,256	9,329

NOTE: NA = Data not available.

Table 7.
Annual Change in the Number of Residential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES									
Accomack	46.4%	27.0%	–45.3%	37.4%	10.8%	15.8%	14.2%	44.8%	–52.2%
Albemarle	103.9	–0.8	–20.5	2.7	0.8	–33.4	119.0	–22.7	13.3
Alleghany	–63.9	4.9	–27.0	18.5	29.3	–12.4	45.8	**	**
Amelia	–35.7	63.3	–36.8	–1.0	31.5	–9.9	76.1	–20.7	5.5
Amherst	10.7	1.6	–58.1	2.3	1.7	20.3	39.8	–27.0	–7.3
Apomattox	–72.5	–3.2	3.9	–7.9	12.2	3.5	8.4	12.9	–14.7
Arlington	13.0	143.7	–32.1	52.7	200.7	–72.3	166.4	–32.4	3.2
Augusta	27.4	5.8	–36.1	22.8	–11.3	30.1	–8.5	45.4	–14.5
Bath	20.0	–20.0	–66.7	92.3	–13.3	9.8	–19.6	21.4	7.7
Bedford	–54.0	–10.8	102.1	**	**	–30.4	148.3	–33.8	–41.2
Bland	–63.0	11.0	–5.2	–14.4	26.8	18.3	–13.0	–13.8	95.1
Botetourt	–22.8	0.8	159.6	–45.0	5.3	34.6	98.4	–43.9	–45.5
Brunswick	–84.5	16.2	20.7	20.3	–8.9	13.5	–15.4	–19.4	27.6
Buchanan	14.7	–12.8	–84.8	–8.2	–7.6	16.1	–21.9	–18.9	3.8
Buckingham	–81.8	423.8	–78.0	36.4	0.0	–14.6	–9.4	47.2	1.7
Campbell	–37.1	20.5	–57.6	–36.3	43.0	14.9	22.8	–30.5	0.3
Caroline	–11.5	14.1	–3.6	11.6	6.5	–2.6	–5.9	10.9	–35.8
Carroll	–5.7	16.2	–71.1	11.0	2.2	25.5	8.5	–16.7	–19.0
Charles City	7.3	2.5	–36.5	57.5	300.0	–64.3	–26.3	81.0	–69.1
Charlotte	25.5	–23.0	–55.5	7.9	–5.2	332.3	47.6	–12.5	–31.4
Chesterfield	–1.0	–13.7	–8.4	–1.1	20.0	0.7	91.6	–17.4	–32.2
Clarke	–35.4	0.8	7.7	95.0	20.0	–12.3	67.6	–24.4	18.4
Craig	–19.6	35.3	–55.3	–8.4	62.7	**	**	**	**
Culpeper	–48.1	90.3	3.4	71.1	75.3	–14.6	167.2	–45.3	–35.7
Cumberland	–45.0	100.0	–59.5	72.1	34.4	6.7	15.4	0.0	–39.5
Dickenson	–43.1	88.9	–50.9	–72.9	–0.5	–19.0	6.3	0.0	–21.3
Dinwiddie	–47.8	82.0	–38.8	24.7	15.2	–18.1	37.9	–11.9	16.9
Essex	–32.6	156.8	–61.1	41.8	6.3	–38.2	70.0	22.4	–34.7
Fairfax	–29.0	–15.9	18.6	0.2	–14.9	11.2	130.3	–10.8	–15.5
Fauquier	–26.3	139.0	–63.1	15.6	35.7	12.6	86.1	9.7	–27.6
Floyd	–62.6	11.9	32.2	101.7	17.6	–15.0	76.5	–27.7	–16.1
Fluvanna	–10.0	19.0	0.8	46.2	28.6	–2.9	93.0	–6.6	–26.9
Franklin	–20.7	4.9	–39.8	–2.1	–19.8	43.4	28.3	125.9	–15.5
Frederick	19.0	–0.4	28.5	–14.6	42.3	36.4	88.9	–12.5	–36.7
Giles	–83.4	–1.9	4.1	33.3	–21.8	–19.8	10.6	22.1	–17.1
Gloucester	–37.2	–29.2	–50.7	–0.2	–1.7	4.4	111.4	6.6	–3.0
Goochland	–7.2	6.6	–15.2	12.7	25.0	10.1	17.3	22.1	1.0
Grayson	–68.3	37.0	–12.1	14.4	–6.9	31.2	5.5	–16.6	–39.4
Greene	–4.2	16.8	–3.4	9.6	3.8	16.1	4.7	–9.3	–21.3
Greensville	–64.9	–19.6	43.8	–22.9	–5.7	1.1	38.1	–14.9	–25.3
Halifax	–75.1	58.9	45.3	595.0	–94.2	17.7	32.0	–14.9	–4.4
Hanover	–22.0	14.3	–24.2	36.3	45.0	42.0	62.7	23.4	–43.3
Henrico	–45.6	61.1	–17.1	7.5	–20.0	31.6	191.7	–34.1	–23.8
Henry	2.8	–9.6	–68.6	32.3	–14.2	18.8	45.6	–2.5	–24.8
Highland	–42.9	75.0	–15.8	–44.1	3.0	–42.1	–21.9	135.5	–3.1

Table 7. (continued)
Annual Change in the Number of Residential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)									
Isle of Wight	–56.1%	89.4%	–39.7%	**	**	**	60.8%	22.5%	–26.4%
James City	–29.1	–8.3	–19.1	45.0%	31.6%	–1.7%	38.3	32.7	29.0
King and Queen	9.4	**	**	2.5	–17.5	22.8	31.7	9.1	–14.1
King George	–7.3	–13.8	–10.6	13.7	25.1	95.1	–31.1	16.5	12.4
King William	62.3	10.2	–9.2	73.3	–3.8	5.4	60.9	12.2	–53.4
Lancaster	28.3	9.4	28.4	–6.0	–39.0	20.6	102.0	13.5	–31.0
Lee	–47.9	–9.9	–68.7	–16.2	–5.5	3.8	24.0	51.2	–54.1
Loudoun	–47.3	31.0	–5.8	17.7	37.2	16.9	65.3	82.3	13.7
Louisa	11.4	17.5	–29.7	7.6	71.8	–9.6	4.1	–0.5	2.8
Lunenburg	–28.9	322.2	–76.9	–14.3	**	**	**	36.1	–25.0
Madison	5.4	21.7	12.8	36.2	–5.5	2.8	36.5	0.0	–1.9
Mathews	0.0	–2.6	–17.0	46.9	–14.3	24.4	52.5	–21.3	–6.3
Mecklenburg	35.9	–0.8	–70.4	12.1	15.6	2.0	14.4	–27.3	39.2
Middlesex	–12.2	15.4	0.0	**	**	–13.7	45.7	8.2	–4.9
Montgomery	4.8	–15.4	52.9	32.3	21.7	–6.0	–18.7	–26.2	1.0
Nelson	–7.4	8.6	–23.3	–11.7	13.2	–9.2	15.7	25.6	–24.6
New Kent	–14.6	–11.5	–1.9	57.8	–11.2	20.6	80.0	–5.4	–24.5
Northampton	11.5	92.6	–57.5	38.0	–45.9	61.9	69.4	17.0	–14.5
Northumberland	44.4	–0.9	7.4	28.5	**	**	15.0	–9.8	–7.0
Nottoway	–27.8	38.5	–61.8	18.6	7.5	5.3	–31.5	14.4	–37.4
Orange	17.7	–4.2	24.2	–7.0	21.5	4.2	75.4	–10.9	–16.5
Page	10.4	–27.7	20.8	27.0	26.1	–38.1	99.1	–22.8	–7.1
Patrick	–72.7	–9.9	7.2	10.3	–26.8	42.6	29.1	–31.3	8.5
Pittsylvania	–12.6	–7.4	–64.2	17.6	–7.4	–5.8	27.6	4.1	–16.8
Powhatan	8.0	20.3	–13.6	55.1	12.2	19.1	74.6	–17.1	–25.5
Prince Edward	–26.1	163.0	–60.0	–2.9	11.2	–13.2	60.0	–44.1	71.3
Prince George	28.9	–6.3	–11.1	6.4	–5.6	8.6	35.6	10.6	–49.2
Prince William	–33.3	–14.9	–4.1	87.7	–4.8	15.5	64.3	6.3	2.6
Pulaski	6.7	20.2	–62.0	–9.4	23.3	20.7	–17.1	8.6	–31.6
Rappahannock	–6.2	–8.0	29.4	25.9	86.2	–48.2	1.8	48.6	–30.2
Richmond	–21.8	–38.2	56.1	9.6	4.0	–18.0	84.8	–28.3	–9.8
Roanoke	29.7	–22.0	–21.4	0.0	10.4	10.4	119.4	–30.5	–2.5
Rockbridge	–4.0	59.6	–52.8	11.2	–24.5	40.2	35.2	98.4	–24.1
Rockingham	1.3	–21.6	–18.0	14.7	29.7	12.9	–8.6	–4.6	–22.9
Russell	–3.6	–18.8	–81.6	10.3	0.0	–2.9	–2.0	10.9	–27.5
Scott	–53.8	36.8	–66.7	–27.2	20.4	–1.1	17.9	–5.1	–19.8
Shenandoah	–17.1	7.3	26.0	26.4	24.9	–18.9	70.4	–59.8	76.7
Smyth	40.0	–3.1	–65.7	4.8	1.9	15.0	37.9	–56.9	34.2
Southampton	–71.1	94.6	–33.7	–17.6	66.7	29.5	9.2	–42.4	58.9
Spotsylvania	13.9	–16.8	23.6	17.5	46.9	34.7	83.6	3.0	–17.6
Stafford	–20.2	86.2	19.1	14.3	407.3	–13.2	–64.7	49.7	–25.3
Surry	18.8	–23.1	–11.9	11.3	–9.4	3.5	48.7	8.6	–39.7
Sussex	–86.8	33.3	18.7	–8.1	5.3	–21.0	153.2	–61.5	54.4
Tazewell	–7.8	21.9	–79.6	–2.7	–7.0	–6.4	4.8	–1.0	–11.2
Warren	0.5	29.1	16.8	45.8	12.3	–22.6	240.0	–40.9	–32.9

Table 7. (continued)
Annual Change in the Number of Residential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)									
Washington	–24.7%	3.1%	–52.2%	11.1%	12.3%	17.9%	13.0%	–4.5%	–28.8%
Westmoreland	30.8	–12.9	46.2	88.2	–37.7	–28.7	16.3	267.5	–23.1
Wise	–72.3	168.0	–79.4	–8.0	–1.2	30.4	67.9	–58.0	33.0
Wythe	–62.9	–2.9	9.0	–30.6	63.5	0.4	27.0	–24.8	–0.3
York	–20.8	13.9	–41.8	23.2	150.6	24.1	20.2	11.8	–20.0
CITIES									
Alexandria	303.4	–66.6	739.9	235.8	–85.6	10.5	44.2	–25.7	–41.3
Bedford	–40.0	–19.4	24.0	–59.7	181.8	–18.5	107.7	–43.5	–11.5
Bristol	15.4	–22.0	–35.9	30.0	–71.7	404.8	133.3	–64.7	–77.7
Buena Vista	52.9	1,600.0	–90.9	–78.4	1,600.0	–25.0	–93.7	6,200.0	–98.6
Charlottesville	2.0	28.0	32.6	–21.9	–29.6	–5.8	212.7	–19.1	–70.6
Chesapeake	1.2	–27.2	–5.5	2.4	25.6	18.6	169.3	74.8	–11.0
Clifton Forge	–33.3	50.0	100.0	**	**	**	–50.0	**	**
Colonial Heights	–25.8	–17.5	–16.7	45.5	–29.0	60.3	–17.1	42.9	–49.0
Covington	100.0	–75.0	166.7	–85.0	17.6	112.5	700.0	0.0	–80.0
Danville	–28.0	25.0	–13.0	–45.9	–2.3	31.8	200.0	–89.7	65.1
Emporia	50.0	128.6	16.7	–88.2	920.0	66.7	–25.0	–66.7	–83.3
Fairfax	–94.0	–56.2	240.0	–34.8	56.8	175.0	–15.8	171.4	–46.2
Falls Church	–56.3	433.3	–75.0	20.0	900.0	–66.7	50.0	–75.0	–71.4
Franklin	138.2	–42.4	11.3	–8.6	241.2	–46.9	300.0	–90.0	515.4
Fredericksburg	–94.3	335.7	–91.1	90.9	36.4	210.3	333.3	–67.9	833.3
Galax	–88.1	227.8	–71.0	51.2	46.4	–58.2	–45.1	139.2	–13.6
Hampton	–29.5	55.8	–53.5	–4.2	89.9	29.0	127.5	25.8	–24.6
Harrisonburg	44.7	27.3	–20.1	65.5	11.5	45.2	177.5	–32.4	–69.1
Hopewell	–29.1	54.9	–80.2	101.6	70.7	127.3	–73.0	293.5	–75.4
Lexington	–47.1	**	**	–69.2	1,200.0	–90.0	233.3	–40.0	–37.5
Lynchburg	14.4	–31.1	14.6	–32.5	25.3	0.7	26.1	75.6	–73.2
Manassas	–59.2	–3.9	–48.1	176.2	280.3	121.0	–65.2	114.5	–61.2
Manassas Park	0.0	**	–8.3	–38.8	71.9	256.3	–56.8	**	**
Martinsville	–16.7	3.8	0.0	73.3	7.1	7.7	271.4	–90.5	13.8
Newport News	–27.3	–7.3	–37.0	–8.5	–9.4	110.6	94.6	71.7	–4.4
Norfolk	13.0	–39.4	8.6	0.7	15.6	23.2	27.6	53.2	–14.1
Norton	–88.9	**	**	–20.0	–52.7	236.4	–43.6	5.4	–24.5
Petersburg	38.5	–74.3	–33.6	502.6	–57.8	172.7	–62.5	–34.8	–32.2
Poquoson	–39.7	10.5	–45.7	–65.0	140.0	–15.0	61.5	19.7	–12.6
Portsmouth	21.9	–60.4	–36.0	113.4	–9.3	22.7	47.0	15.8	18.7
Radford	3.4	8.9	8.0	37.5	–56.5	230.3	0.0	6.0	600.0
Richmond	–7.4	–59.4	14.3	71.8	–35.9	59.2	7.4	–16.7	–61.2
Roanoke	–8.2	–49.9	7.6	40.0	108.6	–8.6	11.8	156.6	–89.5
Salem	–15.9	–8.9	–29.1	36.6	–38.8	16.0	211.9	–22.2	–37.9
South Boston	–23.1	0.0	62.5	–87.1	181.8	–18.5	–67.5	1,283.3	–93.0
Staunton	–42.5	63.4	3.8	–41.9	202.2	–15.1	152.4	–25.0	–78.5
Suffolk	–26.2	–13.5	–9.3	39.2	–37.6	40.9	68.6	270.9	–73.7
Virginia Beach	–35.3	31.1	–62.9	12.6	8.2	–11.3	71.9	54.9	8.0
Waynesboro	22.9	29.7	–26.4	61.1	–1.8	–59.6	267.6	–31.5	92.9
Williamsburg	–2.4	–37.9	–21.4	–22.9	16.0	42.4	–19.5	811.1	–52.6
Winchester	–28.1	47.9	–41.9	56.5	137.5	–32.3	282.4	–57.0	–4.8

Table 7. (continued)
Annual Change in the Number of Residential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
PLANNING DISTRICTS									
LENOWISCO	-64.8%	79.1%	-74.3%	-15.6%	-0.8%	18.2%	32.5%	-25.0%	-11.3%
Cumberland Plateau	-10.8	12.1	-80.0	-11.1	-4.5	-3.7	-2.5	-3.2	-13.6
Mount Rogers	-40.9	10.4	-41.8	1.3	6.0	24.4	11.8	-21.2	-18.4
New River Valley	-12.9	-5.2	12.1	23.1	-3.7	19.8	-9.1	-10.5	-6.6
Fifth	-2.0	-22.5	-5.5	4.3	17.8	14.1	91.3	-5.3	-52.9
Central Shenandoah	17.0	10.7	-28.2	19.8	10.3	15.3	9.6	22.2	-34.0
Lord Fairfax	-2.3	6.8	12.4	17.8	38.4	-8.8	110.3	-41.5	1.6
Northern Virginia	-21.5	-8.7	9.3	24.5	-4.7	7.8	106.1	-3.9	-13.4
Rappahannock–Rapidan	-26.3	68.9	-27.6	22.3	36.7	2.6	80.4	-3.9	-25.7
Thomas Jefferson	35.1	10.5	-15.9	4.8	11.3	-20.3	70.5	-10.1	-13.3
Central Virginia	-40.2	-8.5	4.2	2.2	6.6	0.2	43.8	-17.4	-29.1
West Piedmont	-24.2	-3.2	-51.0	13.4	-14.5	17.8	35.2	-3.7	-9.7
Southside	-59.2	27.7	-23.9	23.6	-29.9	9.5	3.5	-12.2	7.2
Piedmont	-43.6	129.3	-62.6	12.5	23.6	11.0	-8.2	2.1	-6.3
Richmond Regional	-23.3	9.5	-12.3	11.1	2.0	18.0	103.4	-18.8	-34.4
RADCO	-8.8	21.8	6.4	20.2	76.9	32.0	-6.8	20.3	-19.8
Northern Neck	30.1	-6.6	28.1	24.8	4.3	-27.2	43.1	30.2	-17.9
Middle Peninsula	-10.0	-1.0	-42.3	22.5	-12.8	1.7	84.8	5.5	-12.8
Crater	-26.2	0.6	-29.1	36.5	2.2	11.7	10.7	-3.6	-33.7
Southeastern Virginia	-20.9	-5.2	-40.2	16.2	9.9	-3.3	74.2	51.3	-0.8
Peninsula	-27.3	8.3	-38.8	0.9	28.8	55.7	72.3	44.9	-6.6
Accomack–Northampton	38.1	38.2	-47.9	37.6	-9.1	28.6	25.6	38.1	-46.4
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	-28.0	6.3	-54.4	-0.8	-4.2	33.7	18.4	-9.3	-36.9
Charlottesville	47.9	9.0	-10.3	7.6	0.1	-23.8	106.7	-19.3	-14.1
Danville	-14.8	-3.8	-61.7	11.3	-7.0	-3.2	32.9	-18.7	-5.4
Lynchburg	-10.8	-5.5	-42.0	-28.0	28.8	12.3	27.2	-16.0	-26.9
Norfolk	-21.7	-4.4	-40.4	8.6	14.3	11.6	76.2	52.0	-3.1
Northern Virginia	-21.4	-4.4	9.7	24.0	-1.0	7.6	95.7	-1.8	-14.0
Richmond	-22.8	8.9	-14.8	14.5	1.8	18.3	88.8	-15.8	-34.8
Roanoke	5.1	-25.7	-1.1	5.1	14.9	11.3	96.8	-16.8	-47.9
TOTAL METROPOLITAN	-19.5	-2.1	-17.0	13.5	5.9	10.2	82.0	6.8	-19.5
TOTAL NONMETROPOLITAN	-16.4	14.1	-21.6	18.9	6.9	6.3	26.1	-6.5	-15.0
TOTAL COUNTIES	-21.4	6.1	-11.6	15.2	4.2	6.7	63.5	-7.5	-15.1
TOTAL CITIES	-9.2	-11.2	-32.5	13.8	10.7	15.9	66.5	40.2	-27.6
VIRGINIA	-18.6	1.7	-18.1	14.7	6.2	9.3	64.4	2.2	-18.0

NOTE: ** = undefined value due to zero divisor or numerator.

Table 8.
Annual Change in the Number of Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES									
Accomack	79.3%	22.5%	31.5%	8.0%	2.0%	14.0%	–25.9%	–24.7%	67.4%
Albemarle	10.9	–2.1	–2.1	–4.0	–12.7	12.8	12.8	8.4	2.5
Alleghany	–5.4	**	**	64.0	–32.4	8.8	3.0	**	**
Amelia	**	120.0	25.0	–33.3	–73.9	27.8	–40.0	100.0	–61.5
Amherst	4.4	4.7	–8.5	–6.0	11.1	45.2	0.0	–50.8	350.0
Appomattox	–81.0	90.9	**	**	183.3	–57.1	27.3	15.8	11.8
Arlington	–29.4	6.3	–30.4	27.8	–33.3	575.0	–50.0	14.3	–12.5
Augusta	–14.0	21.1	–7.1	22.0	11.2	–12.9	–1.3	–5.0	5.7
Bath	–86.7	–42.3	–3.7	200.0	200.0	–92.3	–30.4	**	**
Bedford	**	**	**	**	**	–36.1	–11.1	–38.6	–24.6
Bland	–50.0	–90.2	1,266.7	50.0	–71.4	600.0	**	**	100.0
Botetourt	**	74.4	**	**	–17.5	–24.5	–11.7	33.3	–31.8
Brunswick	–98.2	–42.9	127.9	–35.8	31.4	21.4	55.6	–12.9	–32.6
Buchanan	–47.8	–8.0	–21.9	14.3	–33.3	–4.5	–4.3	48.4	–16.2
Buckingham	–4.0	92.3	**	**	–88.6	94.4	–41.9	138.5	–50.0
Campbell	–44.3	11.9	18.5	–7.1	2.1	–22.4	35.9	100.0	–28.1
Caroline	50.0	100.0	–89.5	0.0	–26.9	8.3	–42.9	82.6	–58.2
Carroll	–44.1	–35.2	–8.7	15.0	92.3	–16.1	37.8	–33.8	–17.1
Charles City	–3.0	–15.4	–17.0	27.0	94.7	–13.6	**	**	**
Charlotte	–47.6	0.0	10.5	26.7	–6.3	–5.9	0.0	–15.0	–48.7
Chesterfield	–59.9	62.7	–1.0	35.4	1,957.1	–92.9	16.7	–8.7	0.0
Clarke	46.7	–31.8	83.3	4.3	21.1	280.0	25.0	100.0	–75.0
Craig	**	**	**	–92.3	225.0	**	**	**	**
Culpeper	–9.5	68.0	–73.7	–9.5	–0.9	1.0	52.2	–33.7	5.1
Cumberland	–76.5	54.5	10.0	–9.1	–54.2	–7.7	–3.7	68.8	–23.8
Dickenson	–83.3	–77.8	575.0	**	**	–85.7	27.3	37.5	–15.8
Dinwiddie	23.2	53.5	90.6	103.8	–54.4	128.0	–10.7	211.1	80.0
Essex	–21.3	95.8	–44.2	19.4	–2.7	5.7	–12.5	25.0	–3.0
Fairfax	–15.4	27.3	–25.3	35.6	2.9	91.5	22.0	22.0	–68.0
Fauquier	–24.9	675.9	–84.3	85.0	–35.1	26.2	–18.7	24.0	1.7
Floyd	**	–50.0	433.3	–71.4	200.0	16.7	–25.0	–27.3	–47.6
Fluvanna	–8.0	316.7	20.0	–75.0	–20.0	25.0	–35.5	34.8	43.8
Franklin	–9.9	22.8	–1.8	16.8	40.9	48.9	–22.7	26.5	0.0
Frederick	7.3	–29.6	79.0	–18.5	10.6	–0.8	24.3	–2.7	–20.3
Giles	–80.4	70.4	3.8	225.0	–50.0	–5.9	41.7	140.0	25.0
Gloucester	–80.5	115.8	–13.6	15.8	–53.7	70.8	–29.4	70.0	–28.6
Goochland	9.8	–29.9	45.0	–15.5	42.0	28.2	–20.4	–7.5	29.3
Grayson	**	**	1,300.0	–80.0	–78.7	6.8	–26.7	114.3	–22.2
Greene	–27.8	14.9	–4.1	–9.3	–5.3	96.6	–12.1	–31.3	–18.6
Greensville	**	**	–62.5	166.7	–50.0	–33.3	**	**	–80.0
Halifax	**	**	**	**	**	60.0	**	**	0.0
Hanover	29.4	–29.2	100.0	–32.5	3.6	25.0	8.6	2.5	–11.2
Henrico	–20.5	–4.4	18.8	–6.4	5.1	–5.4	10.7	–0.7	0.7
Henry	4.9	17.1	–22.2	5.9	13.3	17.2	14.3	–5.1	–19.2
Highland	28.9	18.8	1,500.0	–95.7	0.0	–22.0	–11.9	39.6	–34.2

Table 8. (continued)
Annual Change in the Number of Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)									
Isle of Wight	–53.3%	**	**	**	**	**	–27.0%	102.3%	–22.8%
James City	–35.7	–22.2%	–5.3%	–47.2%	0.0%	–78.6%	68.0	–8.3	–8.4
King and Queen	236.4	**	**	4.2	0.0	–40.0	81.8	633.3	–62.5
King George	0.0	300.0	100.0	0.0	–90.9	–35.3	–10.5	–55.8	65.4
King William	–80.0	66.7	**	**	0.0	**	**	**	**
Lancaster	–29.3	–14.8	4.8	95.3	–24.6	–1.7	–21.6	4.2	14.5
Lee	3.7	42.1	–17.4	53.3	–6.3	45.5	–15.4	0.0	–31.6
Loudoun	–2.0	**	**	**	–34.5	–40.2	9.5	–3.4	1.2
Louisa	–40.9	144.4	–30.8	–13.3	25.0	71.4	–63.2	–58.7	39.4
Lunenburg	–66.7	50.0	–42.9	**	**	**	**	–40.0	29.6
Madison	–11.9	–26.3	103.6	–3.4	3.6	55.6	–30.8	30.0	–13.0
Mathews	100.0	0.0	–25.0	300.0	–98.6	39.6	43.2	8.8	9.7
Mecklenburg	11.1	59.5	–1.3	63.3	0.0	–19.7	–14.1	136.7	–44.4
Middlesex	92.7	–20.3	–21.6	**	**	48.1	68.8	–30.4	4.5
Montgomery	–4.8	26.5	9.2	2.7	51.0	14.0	–20.4	–37.2	45.8
Nelson	–31.9	18.0	17.3	67.7	–24.4	–21.2	–26.8	73.2	–19.6
New Kent	3.0	–2.9	–22.7	–4.3	48.4	0.0	3.3	400.0	–50.0
Northampton	–6.7	100.0	200.0	–93.6	680.0	–33.3	275.0	–63.6	57.1
Northumberland	–25.0	33.3	0.0	50.0	**	**	200.0	6.3	0.0
Nottoway	–5.0	–16.7	100.0	0.0	33.3	–50.0	1,700.0	–80.0	–44.4
Orange	11.8	50.0	–8.1	131.3	–11.1	–5.3	5.6	0.0	0.0
Page	12.9	3.3	–18.6	51.4	9.8	1.5	–3.7	–7.5	16.7
Patrick	–9.1	–23.3	377.8	–10.0	–33.3	–16.7	157.1	–36.4	–35.3
Pittsylvania	–42.7	–27.2	10.3	–6.6	–8.4	29.0	14.9	3.1	16.4
Powhatan	36.4	22.2	80.0	–68.8	60.0	233.3	200.0	–90.0	–23.1
Prince Edward	–4.0	66.7	0.0	0.0	–31.8	22.2	80.0	66.7	–33.3
Prince George	46.9	146.2	–56.7	–39.4	2.1	47.0	725.0	–88.9	28.6
Prince William	–2.7	13.8	–17.5	0.0	61.7	42.9	7.7	69.6	–51.1
Pulaski	21.1	–26.9	73.3	–11.8	13.3	25.0	–72.7	266.7	20.0
Rappahannock	**	**	**	200.0	–93.5	–24.4	46.4	–31.7	36.7
Richmond	**	**	**	**	**	0.0	–50.0	–50.0	700.0
Roanoke	28.7	–20.6	0.7	1.5	2.3	6.6	149.0	–62.0	12.2
Rockbridge	–15.2	32.0	–16.7	30.4	–11.5	–5.5	12.2	–16.9	7.3
Rockingham	–6.4	–11.7	–11.9	23.7	18.8	–6.3	–14.9	–3.6	–44.6
Russell	1,400.0	–75.0	33.3	0.0	–50.0	–14.3	40.0	66.7	–57.1
Scott	–50.0	66.7	0.0	–45.5	0.0	10.0	25.0	–27.3	120.0
Shenandoah	11.3	43.2	–6.1	11.5	68.2	–27.9	7.0	–15.6	8.0
Smyth	–16.7	–17.2	7.4	50.0	38.5	30.0	42.9	–58.8	–15.0
Southampton	–82.3	–29.7	1,133.3	–89.3	25.0	43.6	–26.4	29.3	3.8
Spotsylvania	6.6	38.2	–9.0	21.5	0.0	82.9	115.4	–38.7	–0.9
Stafford	15.9	7.8	357.1	–63.2	–5.0	135.3	–29.2	–70.4	5.2
Surry	40.0	–54.5	22.2	200.0	–40.0	**	**	400.0	–75.0
Sussex	22.2	–10.0	–44.4	260.0	0.0	–68.8	100.0	–81.4	16.2
Tazewell	–2.9	–70.3	6.3	–13.3	77.8	–12.2	–8.9	45.2	0.0
Warren	**	**	16.5	9.6	159.4	–22.0	355.6	–71.9	45.5

Table 8. (continued)
Annual Change in the Number of Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
COUNTIES (continued)									
Washington	–13.1%	–7.6%	13.8%	11.5%	13.0%	–28.1%	100.0%	–28.9%	–19.6%
Westmoreland	**	**	**	**	**	**	**	**	**
Wise	–10.5	2.7	27.6	–6.5	–32.6	–17.9	–8.2	35.6	55.2
Wythe	–44.8	17.5	46.2	–13.3	–35.7	37.3	21.4	–17.6	–5.6
York	–61.7	–51.6	26.5	81.5	–34.9	10.7	–11.8	–6.6	1.1
CITIES									
Alexandria	31.3	39.1	0.0	228.6	–46.2	–73.5	–9.3	28.6	35.5
Bedford	300.0	–66.7	–93.5	475.0	14.3	16.7	–25.0	700.0	–75.0
Bristol	–8.0	–24.2	17.9	–46.2	26.8	105.0	–31.0	7.4	–28.9
Buena Vista	**	**	**	1,250.0	0.0	–93.9	560.0	150.0	100.0
Charlottesville	–6.7	–26.8	–16.3	19.5	5.1	–23.5	6.3	54.8	–11.4
Chesapeake	–2.1	–16.8	–16.9	33.3	1.0	2.0	–67.4	–7.9	51.4
Clifton Forge	**	**	–57.1	**	**	**	100.0	**	**
Colonial Heights	–22.5	24.6	1.8	33.3	–27.6	16.0	16.3	616.7	–50.0
Covington	–9.1	266.7	–50.0	0.0	–14.3	133.3	**	**	–76.2
Danville	1.1	29.4	–17.1	54.7	–10.2	0.0	11.3	430.0	–23.1
Emporia	–33.3	84.6	–7.1	–22.2	28.6	–30.0	100.0	–60.0	31.6
Fairfax	–78.9	–55.8	152.9	–62.2	200.0	–44.4	800.0	–62.5	–70.4
Falls Church	100.0	–80.0	–16.7	–40.0	–33.3	1,400.0	–75.0	100.0	–60.0
Franklin	–97.3	236.4	–64.5	158.3	20.0	233.3	–75.0	140.0	–16.7
Fredericksburg	–25.6	34.5	–21.6	37.0	0.0	50.0	80.0	–16.7	200.0
Galax	100.0	25.0	–77.8	200.0	–14.3	–56.3	220.0	0.0	–28.6
Hampton	–24.0	39.2	–20.5	11.1	15.0	14.6	16.7	–10.4	7.1
Harrisonburg	–8.3	5.9	9.7	12.7	–3.5	39.0	64.0	–39.0	17.1
Hopewell	30.4	155.6	–43.8	33.3	–20.0	66.7	0.0	–52.6	–17.4
Lexington	0.0	**	**	0.0	**	**	**	–50.0	0.0
Lynchburg	4.8	–17.0	13.6	17.3	17.2	25.5	–3.8	0.0	–55.5
Manassas	–41.5	12.8	11.9	55.6	107.7	225.0	–88.2	70.0	81.8
Manassas Park	–32.4	–46.9	3.2	138.5	766.7	0.0	0.0	0.0	**
Martinsville	33.3	28.6	16.7	0.0	–45.5	175.0	0.0	–33.3	–14.3
Newport News	5.6	7.2	73.5	5.4	28.2	10.6	45.3	–4.7	41.8
Norfolk	–22.7	33.3	–1.0	–8.3	–13.5	–34.2	–14.1	160.8	–27.8
Norton	–50.0	33.3	0.0	0.0	**	**	**	**	–16.7
Petersburg	–27.3	–59.3	–15.6	3.2	–31.1	36.4	120.0	–55.9	–8.1
Poquoson	–25.0	–50.0	33.3	200.0	–71.4	600.0	–96.6	52.6	–38.7
Portsmouth	–19.0	13.3	–18.5	–16.5	–8.3	126.6	–31.9	–1.1	–9.5
Radford	300.0	–85.7	40.0	**	**	100.0	–77.8	12.5	300.0
Richmond	–16.9	9.2	–25.5	–26.6	3.0	35.0	–37.1	–11.7	13.9
Roanoke	–85.7	–32.1	–0.7	–14.0	55.4	74.1	–15.9	–19.8	–16.5
Salem	33.3	–26.4	10.4	–11.1	–3.6	60.0	–12.5	11.1	–2.7
South Boston	–40.0	66.7	50.0	–33.3	–25.0	100.0	0.0	–50.0	**
Staunton	281.8	–59.3	–15.6	45.5	–37.1	2.9	41.7	242.9	–36.4
Suffolk	–15.6	–18.8	321.0	–69.9	–30.4	47.3	34.9	–25.9	–19.0
Virginia Beach	–19.5	3.6	–0.4	5.3	–15.4	21.9	24.2	43.4	0.0
Waynesboro	–29.2	58.5	10.8	–5.1	–32.8	16.0	92.3	–10.3	–6.5
Williamsburg	0.0	10.0	–23.1	–13.3	114.3	0.0	–56.3	60.0	–28.6
Winchester	26.8	–5.1	18.0	–29.6	42.0	–12.3	32.6	230.8	8.3

Table 8. (continued)
Annual Change in the Number of Nonresidential Building Permits Issued in Virginia Localities, 1980–1989

	1988–1989	1987–1988	1986–1987	1985–1986	1984–1985	1983–1984	1982–1983	1981–1982	1980–1981
PLANNING DISTRICTS									
LENOWISCO	–12.7%	21.5%	6.6%	1.7%	–17.8%	–6.4%	–4.9%	10.8%	25.4%
Cumberland Plateau	–4.6	–62.6	16.0	–5.7	28.2	–23.0	–1.2	45.5	–10.4
Mount Rogers	–28.0	–30.0	25.2	1.8	0.7	5.6	21.8	–9.5	–17.3
New River Valley	–27.3	6.9	36.7	6.7	31.9	13.8	–37.0	4.1	27.1
Fifth	–31.0	–3.0	–0.3	–11.4	12.3	22.1	21.8	–16.3	–19.5
Central Shenandoah	–7.9	2.2	–8.3	20.6	7.3	–11.9	–2.1	3.4	–33.0
Lord Fairfax	16.6	–14.9	13.0	8.6	35.9	–7.2	18.4	–5.9	1.9
Northern Virginia	–14.4	20.2	–18.2	22.6	14.1	48.5	9.8	23.3	–53.5
Rappahannock–Rapidan	–15.8	148.3	–58.7	39.3	–25.2	10.5	4.8	–4.3	5.2
Thomas Jefferson	–8.0	9.9	–2.2	–0.3	–10.4	11.3	–5.2	7.6	–0.3
Central Virginia	–22.8	2.3	–2.6	2.6	–1.8	–13.4	9.1	–8.6	–20.1
West Piedmont	–13.8	4.4	2.3	9.8	8.9	28.9	2.4	19.5	–0.3
Southside	–23.0	3.9	0.0	51.3	6.3	1.8	10.0	42.9	–33.3
Piedmont	–28.0	41.5	58.2	6.3	–51.2	12.2	–16.1	24.5	–35.3
Richmond Regional	–23.3	3.8	14.3	–6.5	32.7	–5.2	1.3	–3.8	3.8
RADCO	5.7	34.5	–0.5	12.0	–5.3	66.7	35.0	–39.6	–1.5
Northern Neck	–29.1	–13.2	3.4	95.6	–23.7	–51.6	28.4	0.0	20.3
Middle Peninsula	20.4	37.3	–35.2	124.7	–72.7	27.5	28.7	13.8	–4.2
Crater	19.6	40.9	–3.4	11.3	–20.9	32.5	81.0	–40.6	1.9
Southeastern Virginia	–25.6	2.9	20.6	–15.2	–12.9	15.3	–11.8	30.9	–2.3
Peninsula	–14.5	18.8	5.3	10.8	14.4	1.6	19.9	–7.3	7.4
Accomack–Northampton	57.3	36.0	45.8	–53.9	116.9	1.7	–6.5	–29.5	66.0
METROPOLITAN STATISTICAL AREAS									
Bristol (Va. portion)	–15.6	–8.6	14.1	–20.0	17.3	4.3	36.2	–16.9	–16.2
Charlottesville	0.3	3.9	–4.4	–6.3	–10.0	15.5	3.8	9.0	–1.5
Danville	–27.8	–14.5	2.7	5.0	–8.8	22.2	14.0	27.7	13.1
Lynchburg	–19.2	–0.8	11.0	1.3	8.7	–0.5	17.6	8.6	–17.8
Norfolk	–16.8	12.3	7.2	0.9	–3.3	11.1	1.8	11.7	2.1
Northern Virginia	–12.7	19.4	–13.8	19.4	13.2	51.0	8.1	8.2	–48.9
Richmond	–13.5	11.9	11.6	–4.6	16.8	5.8	11.0	–7.5	4.1
Roanoke	–34.8	–14.5	15.1	–15.6	15.3	22.0	22.9	–26.4	–7.8
TOTAL METROPOLITAN	–16.1	9.5	3.9	1.3	3.2	15.3	6.6	5.3	–8.7
TOTAL NONMETROPOLITAN	–7.4	7.4	–1.1	15.3	1.0	–0.3	2.4	2.4	–15.0
TOTAL COUNTIES	–11.3	7.9	1.8	8.6	3.3	4.8	7.1	–0.3	–16.5
TOTAL CITIES	–15.2	9.9	2.1	3.0	0.9	16.1	1.2	12.1	–0.8
VIRGINIA	–12.8	8.7	1.9	6.5	2.4	9.0	4.8	4.1	–11.5

NOTE: ** = undefined value due to zero divisor or numerator.

Appendices

Appendix A.
Nonresidential Buildings Tabular Categories

Tabular categories used in tables 3 and 5 include the following:

Amusement and Recreational buildings
includes theaters, radio and television studios, auditoriums, arenas, bowling alleys, skating rinks, indoor swimming pools, and gymnasiums.

Church, Hospital, and School buildings
includes churches, synagogues, rectories, Sunday school rooms, monasteries; general, TB, and mental hospitals and sanatoriums, health centers, clinics, rest homes, orphanages, homes for the aged, and nursing homes; penitentiaries, jails, reformatories; schools, colleges, seminaries, libraries, museums, observatories, and dormitories.

Industrial buildings
includes plants producing, processing, and assembling goods and materials, plus affiliated buildings such as warehouses and administration buildings.

Parking Garages
includes garage buildings and open-deck parking structures. This category does not include parking lots or residential garages and carports.

Service Stations and Repair Garages
includes automobile repair shops.

Office, Bank, and Professional buildings
includes buildings designed for doctors' offices and related services, chambers of commerce, public administration buildings such as post offices, city halls, court houses, and Federal offices.

Public Work and Utilities buildings
includes plants providing public services, such as transportation, communication, power, light, heat, water supply, sewage and garbage disposal, and trash incineration.

Stores and Mercantile buildings
includes buildings used in buying, selling, distributing, and storing merchandise and materials, or performing consumer services.

Other Nonresidential buildings
includes boathouses, burial crypts, farm buildings such as barns and silos, pumphouses, as well as government owned buildings such as armories, military barracks, police and fire stations, and convention centers.

Appendix B.
Virginia Planning Districts

1 LENOWISCO
Lee County
Scott County
Wise County
Norton City

2 Cumberland Plateau
Buchanan County
Dickenson County
Russell County
Tazewell County

3 Mount Rogers
Bland County
Carroll County
Grayson County
Smyth County
Washington County
Wythe County
Bristol City
Galax City

4 New River Valley
Floyd County
Giles County
Montgomery County
Pulaski County
Radford City

5 Fifth
Alleghany County
Botetourt County
Craig County
Roanoke County
Clifton Forge City
Covington City
Roanoke City
Salem City

6 Central Shenandoah
Augusta County
Bath County
Highland County
Rockbridge County
Rockingham County
Buena Vista City
Harrisonburg City
Lexington City
Staunton City
Waynesboro City

7 Lord Fairfax
Clarke County
Frederick County
Page County
Shenandoah County
Warren County
Winchester City

8 Northern Virginia
Arlington County
Fairfax County
Loudoun County
Prince William County
Alexandria City
Fairfax City
Falls Church City
Manassas City
Manassas Park City

9 Rappahannock-Rapidan
Culpeper County
Fauquier County
Madison County
Orange County
Rappahannock County

10 Thomas Jefferson
Albemarle County
Fluvanna County
Greene County
Louisa County
Nelson County
Charlottesville City

11 Central Virginia
Amherst County
Appomattox County
Bedford County
Campbell County
Bedford City
Lynchburg City

12 West Piedmont
Franklin County
Henry County
Patrick County
Pittsylvania County
Danville City
Martinsville City

13 Southside
Brunswick County
Halifax County
Mecklenburg County
South Boston City

14 Piedmont
Amelia County
Buckingham County
Charlotte County
Cumberland County
Lunenburg County
Nottoway County
Prince Edward County

15 Richmond Regional
Charles City County
Chesterfield County
Goochland County
Hanover County
Henrico County
New Kent County
Powhatan County
Richmond City

16 RADCO
Caroline County
King George County
Spotsylvania County
Stafford County
Fredericksburg City

17 Northern Neck
Lancaster County
Northumberland County
Richmond County
Westmoreland County

18 Middle Peninsula
Essex County
Gloucester County
King and Queen County
King William County
Mathews County
Middlesex County

19 Crater
Dinwiddie County
Greensville County
Prince George County
Surry County
Sussex County
Colonial Heights City
Emporia City
Hopewell City
Petersburg City

20 Southeastern Virginia
Isle of Wight County
Southampton County
Chesapeake City
Franklin City
Norfolk City
Portsmouth City
Suffolk City
Virginia Beach City

21 Peninsula
James City County
York County
Hampton City
Newport News City
Poquoson City
Williamsburg City

22 Accomack-Northampton
Accomack County
Northampton County

Appendix C.
Virginia Metropolitan Statistical Areas

Charlottesville
- Albemarle County
- Fluvanna County
- Greene County
- Charlottesville City

Danville
- Pittsylvania County
- Danville City

Johnson City-Kingsport-Bristol, Tennessee-Virginia

Virginia Portion:
- Scott County
- Washington County
- Bristol City

Tennessee Portion:
- Carter County
- Hawkins County
- Sullivan County
- Unicoi County
- Washington County

Lynchburg[a]
- Amherst County
- Campbell County
- Lynchburg City

Norfolk-Virginia Beach-Newport News[b]
- Gloucester County
- James City County
- York County
- Chesapeake City
- Norfolk City
- Portsmouth City
- Suffolk City
- Virginia Beach City
- Hampton City
- Newport News City
- Poquoson City
- Williamsburg City

Richmond-Petersburg[c]
- Charles City County
- Chesterfield County
- Goochland County
- Hanover County
- Henrico County
- New Kent County
- Powhatan County
- Dinwiddie County
- Prince George County
- Colonial Heights City
- Hopewell City
- Petersburg City
- Richmond City

Roanoke[d]
- Botetourt County
- Roanoke County
- Roanoke City
- Salem City

Washington, D.C.-Maryland-Virginia[e]

Virginia Portion:
- Arlington County
- Fairfax County
- Loudoun County
- Prince William County
- Stafford County
- Alexandria City
- Fairfax City
- Falls Church City
- Manassas City
- Manassas Park City

District of Columbia

Maryland Portion:
- Calvert County
- Charles County
- Frederick County
- Montgomery County
- Prince George's County

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[a] Appomattox County was removed from the Lynchburg MSA on June 30, 1983.

[b] On June 30, 1983 the Norfolk-Virginia Beach-Portsmouth MSA and the Newport News-Hampton MSA were combined to form the Norfolk-Virginia Beach-Newport News MSA.

[c] On June 30, 1983 the Petersburg-Colonial Heights-Hopewell MSA and the Richmond MSA were combined to form the Richmond-Petersburg MSA.

[d] Craig County was removed from the Roanoke MSA on June 30, 1983.

[e] Stafford County, Va., and Calvert and Frederick Counties, Md., were added to the Washington, D.C.-Md.-Va. MSA on June 30, 1983.

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